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OM nucleic - nucleic search, using sw model

Run on: October 3, 2003, 13:07:17 ; Search time 110 Seconds
(without alignments)
6540.496 Million cell updates/sec

Title: US-09-856-836-1
Perfect score: 1630
Sequence: 1 ttaccctaccgtaggga.....atgcctctaaataaaaaa 1630

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA: *
1: /cgn2_6/ptodata/1/ina/5A.COMB.seq.*
2: /cgn2_6/ptodata/1/ina/5B.COMB.seq.*
3: /cgn2_6/ptodata/1/ina/6A.COMB.seq.*
4: /cgn2_6/ptodata/1/ina/6B.COMB.seq.*
5: /cgn2_6/ptodata/1/ina/PCTUS.COMB.seq.*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
1	1011.4	62.0	1820	2	US-08-828-922-2
2	240.8	14.8	686	3	US-09-040-984-36
3	240.8	14.8	686	4	US-09-123-912-36
4	240.8	14.8	686	4	US-09-643-597-36
5	240.8	14.8	686	4	US-09-480-884A-36
6	240.8	14.8	686	4	US-09-542-615A-36
7	240.8	14.8	686	4	US-09-606-421B-36
8	50.6	3.1	7218	1	US-08-232-463-14
9	48.2	3.0	577	3	US-09-385-982-449
10	48.2	3.0	647	3	US-09-385-982-323
11	45.8	2.8	2152	1	US-08-188-582-17
12	45.8	2.8	2152	1	US-08-646-715-17
13	44.2	2.7	1221	3	US-08-965-600-2
14	44.2	2.7	1221	4	US-09-489-506-2
15	42.6	2.6	1326	4	US-09-620-312D-867
16	41.6	2.6	305	4	US-09-313-294A-6073
17	39.8	2.4	3067	4	US-09-016-434-1285
18	39.6	2.4	2085	2	US-08-283-917-8
19	39.6	2.4	2085	2	US-08-961-716-8
20	39.4	2.4	2130	4	US-09-620-312D-145
21	37.8	2.3	1607	2	US-08-883-534-2
22	37.8	2.3	1607	3	US-09-204-764-2
23	37.8	2.3	1674	4	US-09-620-312D-593
24	37.6	2.3	7042	3	US-09-032-508-1
25	37.6	2.3	7042	4	US-09-435-115-1
26	37.6	2.3	7042	4	US-09-098-310-1
27	37.6	2.3	7042	4	US-09-690-364-21

28 37.6 2.3 7075 3 US-09-092-508-15 Sequence 15, Appl
29 37.6 2.3 7075 4 US-09-435-115-15 Sequence 15, Appl
30 37 2.3 1215 4 US-08-936-165A-63 Sequence 63, Appl
31 36.8 2.3 7881 2 US-08-751-189-1 Sequence 1, Appl
32 36.8 2.3 7881 2 US-09-060-836-1 Sequence 1, Appl
33 36.8 2.3 7881 3 US-09-184-445-1 Sequence 1, Appl
34 36.4 2.2 689 4 US-09-252-991A-7576 Sequence 7576, Ap
35 36.4 2.2 1152 4 US-09-252-991A-7729 Sequence 7729, Ap
36 36.4 2.2 1215 4 US-09-252-991A-7837 Sequence 7837, Ap
37 36.4 2.2 1581 4 US-09-252-991A-7755 Sequence 7755, Ap
38 35.8 2.2 1368 3 US-08-973-927-8 Sequence 8, Appl
39 35.6 2.2 1254 4 US-09-134-001C-973 Sequence 973, App
40 35.4 2.2 8743 3 US-09-081-320-1 Sequence 1, Appl
41 35.4 2.2 8743 4 US-09-571-141A-1 Sequence 1, Appl
42 35.4 2.2 8743 4 US-09-707-780-1 Sequence 1, Appl
43 35.2 2.2 2343 4 US-09-641-638-652 Sequence 652, App
44 35.2 2.2 4258 3 US-07-765-830A-5 Sequence 5, Appl
45 35 2.1 2272 4 US-09-108-857-1 Sequence 1, Appl

ALIGNMENTS

RESULT 1
US-08-828-922-2
; Sequence 2, Application US/08828922
; Patent No. 5834240
; GENERAL INFORMATION:
; APPLICANT: Olga, Bandman
; TITLE OF INVENTION: TRANSFORMING GROWTH FACTOR-B RECEPTOR
; TITLE OF INVENTION: ASSOCIATED PROTEIN
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/828,922
; FILING DATE: Herewith
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0258 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1820 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: BRAITUT01
; CLONE: 753423
; US-08-828-922-2

Query Match 62.0%; Score 1011.4; DB 2; Length 1820;
Best Local Similarity 83.3%; Pred. No. 4.7e-299;

Matches 1312; Conservative 0; Mismatches 225; Indels 38; Gaps 13;

QY 81 CGCCGATGCGCATGAGCAGAGCGCGCTCACTTCTCGGGCCACACGCGCGCGCTGGTG 140
 DB 254 CGCCGATGAGATGAGCAGAGCGCGCTCACTTCTCGGGCCACACGCGCGCGCTGGTG 313
 QY 141 ANTGCGCTTACGCGGATCAGCGCTTACGCGCTTACGCGCTTACGCGCTTACGCGCT 200
 DB 314 ATTTGGCTTACGCGGATCAGCGCTTACGCGCTTACGCGCTTACGCGCTTACGCGCT 373
 QY 201 GCAAGCCCATGCTCCGCGGAGATACAGGAGACTGGATGGAACATTTTGGGTGATA 260
 DB 374 GTAACCTATCTACGCGGAGATACAGGAGACTGGATGGAACATTTTGGGTGATA 433
 QY 261 AAGGTGCTTGGGTGCAACATTTGAATGAAGATGCCAACAAAGCTGGCAGCAGCTG 320
 DB 434 AAGGTGCTTGGGTGCAACATTTGAATGAAGATGCCAACAAAGCTGGCAGCAGCTG 493
 QY 321 CAGACTTCAGACCCAAAGATGGATGGGTCTCAGGAGATGAATGTATGACCCCTGGCTC 380
 DB 494 CAGATTTACAGCCAAAGTGGGTGCTGCTCAGGAGATGAATGTATGACCCCTGGCTC 553
 QY 381 ATAACCATGTCAGACCTGGGATTTTACACAGGATAGCAATTTACCTGNTAACTGGG 440
 DB 554 ATAACCATGTCAGACCTGGGATTTTACACAGGATAGCAATTTACCTGNTAACTGGG 613
 QY 441 GACAGATTAACCTGCTCGCATATATGACTTGAACAACTGGAAGCAGCAACCTAAGGAAA 500
 DB 614 GACAGATTAACCTGCTCGCATATATGACTTGAACAACTGGAAGCAGCAACCTAAGGAAA 673
 QY 501 TCAGTGGCCACTTCTGTTATTAAGAGCTTGTGGTGCAGTGCAGTGCAGTGCAGTGC 560
 DB 674 TTAGTGGTCATCTTCTGTTATTAAGAGCTTGTGGTGCAGTGCAGTGCAGTGCAGTGC 733
 QY 561 TTTCAGCGGATGATTAACCTGTTGGCTCTGGGATGATGCAACATGACAGAGTGAAT 620
 DB 734 TTTCAGCGGATGATTAACCTGTTGGCTCTGGGATGATGCAACATGACAGAGTGAAT 793
 QY 621 CTCTGAATTTAATGATGTTGTTAGCAGATGAGTATATCTCTGAGGAGAGATTTGG 680
 DB 794 CTCTGAATTTAATGATGTTGTTAGCAGATGAGTATATCTCTGAGGAGAGATTTGG 853
 QY 681 TTATTAATGAGGAGATGATGTTGTTAGCAGATGAGTATATCTCTGAGGAGAGATTTAA 740
 DB 854 TTATTAATGAGGAGATGATGTTGTTAGCAGATGAGTATATCTCTGAGGAGAGATTTAA 913
 QY 741 CTTTGAAGCTCTGCGACCATCAATCTGGCTCTTTCATGAGTGCAGTGCAGTGCAGTGC 800
 DB 914 CTTTGAAGCTCTGCGACCATCAATCTGGCTCTTTCATGAGTGCAGTGCAGTGCAGTGC 973
 QY 801 TTGCGGGTGGAGAGATTTAACTGTACAGTATGATATTAACAGTGGAGAGAGTATG 860
 DB 974 TTGCGGGTGGAGAGATTTAACTGTACAGTATGATATTAACAGTGGAGAGAGTATG 1033
 QY 861 AATCTTACAAAGTTCATTTGGTCCCATCTGCTGTCAGATTCAGTCTGATGGGAC 920
 DB 1034 AATCTTACAAAGTTCATTTGGTCCCATCTGCTGTCAGATTCAGTCTGATGGGAC 1093
 QY 921 TCTATGCGAGCGTCTTGAAGATGGGACATTCAGATTCAGTCTGTCAGTTCAGTTCAGTTC 980
 DB 1094 TCTATGCGAGCGTCTTGAAGATGGGACATTCAGATTCAGTCTGTCAGTTCAGTTCAGTTC 1153
 QY 981 CTTATGGCTCTGGAATCGGTNTTCTGAGGAGAGACAGCGGGGAACTGGCAAGGCAA 1040
 DB 1154 CTTATGGCTCTGGAATCGGTNTTCTGAGGAGAGATGAGTGGTGGTGGGCAAGGCAA 1213
 QY 1041 AGATCGGATTTCCAGAACAGCAGGAGAGAGCTGGCAGAGAAATTTGTTTCAAGATTT 1100
 DB 1214 AGATTTGGTCTTCCAGAACAGCAGGAGAGAGCT---AGAGAAATTTGTTTCAAGATTT 1270
 QY 1101 CAGATTCATCTATTCATCACTCTCCTGAGTATGAGCTGAGCTGAGCTGAGCTGCTGCC 1160
 DB 1271 CAGATTCATCTTCTCTCAGTCTCTGATGTTAAGGCTGAGGCTCAATCATATGTTGCA 1330

QY 1161 GAAACCAT--ATGTTTCATGACTAAACAGAGAGAGACAGATCCGCTT-CAGAGTTAC 1217
 DB 1331 GTTAGTATACACTGACTAAACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1390
 QY 1218 TGTCTGCTGAGGAG 1277
 DB 1391 TGTCTGCTGAGGAG 1450
 QY 1278 GAACAGCT----ACTCAGTGTGCTGAGTCAAAATGGCTGAGTGTCTGAGTGTGAG 1332
 DB 1451 GACAGCACTAATCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1506
 QY 1333 GCAGAGAGA-TTGTGCTACATAGTGCATAGTGCATAGTGCATAGTGCATAGTGCATAGTGC 1382
 DB 1507 GGAGTGGAGTATCT 1566
 QY 1383 AGCCAACTTACATCTCCATTTTACACTCAAAATTTCTTTAGCTGTTTGT---TATG 1438
 DB 1567 AGCCAACTTACATCTCCATTTTACACTCAAAATTTCTTTAGCTGTTTGT---TATG 1626
 QY 1439 AAGAAGAAATATATTTGGCTTATTTTCTGACTTCTCTTAAAGAGAGATGCTTTTGG 1498
 DB 1627 GAGAAGAAATATATTTGGCTTATTTTCTGACTTCTCTTAAAGAGAGATGCTTTTGG 1682
 QY 1499 TCTTTGCT---AGTATGAG 1556
 DB 1683 TTTTGTCTCAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1740
 QY 1557 TCATGTCAG 1615
 DB 1741 TCGTTTCATGTCAGTGCCTCTGAGATCTAATTTTGTAGTTGCTTAAATGAGAGAG 1800
 QY 1616 TCTAAAT 1630
 DB 1801 TCTAAAT 1815

RESULT 2
 US-09-040-984-36
 ; Sequence 36, Application US/09040984
 ; Patent No. 6210883
 ; GENERAL INFORMATION:
 ; APPLICANT: Reed, Steven G.
 ; APPLICANT: Wang, Tongtong
 ; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS
 ; TITLE OF INVENTION: OF LUNG CANCER
 ; NUMBER OF SEQUENCES: 86
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSES: SEED AND BERRY LLP
 ; STREET: 6300 Columbia Center, 701 Fifth Avenue
 ; CITY: Seattle
 ; STATE: WA
 ; COUNTRY: USA
 ; ZIP: 98104
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette
 ; COMPUTER: IBM Compatible
 ; OPERATING SYSTEM: DOS
 ; SOFTWARE: Fast-Seq for Windows Version 2.0
 ; CURRENT APPLICATION DATA: US/09/040,984
 ; APPLICATION NUMBER: US/09/040,984
 ; FILING DATE: 18-MAR-1998
 ; CLASSIFICATION:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Maki, David J.
 ; REGISTRATION NUMBER: 31,392
 ; REFERENCE/DOCKET NUMBER: 210121.456
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 206-622-4900
 ; TELEFAX: 206-282-6031
 ; TELEX:
 ; INFORMATION FOR SEQ ID NO: 36:


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? LENGTH: 686
? TYPE: DNA
? ORGANISM: Homo sapien
?
? FEATURE:
?
? NAME/KEY: misc_feature
? LOCATION: (1)..(686)
? OTHER INFORMATION: n = A,T,C or G
US-09-542-615A-36

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[illegible]

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QY      470  TTGAACAACCTGTAGACGACACCTTAAGAAATC 502
        ||||||||| || || || || || || || || || ||
Db      654  TTGAACAAA-CTNAACAAAAAANCCTAAGGAATC 685

RESULT 7
; US-09-606-421B-36
; Sequence 36, Application US/09606421B
; Patent No. 6531315
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Banguz, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; OF LUNG CANCER
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.455C9
; CURRENT APPLICATION NUMBER: US/09/606.421B
; CURRENT FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 358
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 36
; LENGTH: 686
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc feature

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; LOCATION: (1)...(686)
; OTHER INFORMATION: n = A,T,C or G
US-09-606-421B-36

Query Match      14.8%; Score 240.8; DB 4; Length 686;
Best Local Similarity 79.9%; Pred. NO. 1.6e-63;
Matches 362; Conservative 0; Mismatches 83; Indels 8; Gaps 7;

QY    50 CGCTCCCTCCCTCCTCCTCCTCCCTCCCTCGGCATGCGCATGAGGACGACGCCGTC 109
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DB    241 CTAGCTGCCAGTCCGGTCCCTNGCTTCCCCCGCCATNAGCAGACGCCGTC 300

QY    110 ACTGTGCTGGGCCACACGCGGCCCGTGSGTGAINTGGCTTCAGCGGCATCACGCGTTAC 169
      |||||
DB    301 ACCTGCTCTGGGCACACGCGACCGGTGGTGTATTGGCTTCAGTGGCATCAC-COTTAT 359

QY    170 GGCTACTTCTCATCAGCGCTTGCAGAAGTGGCAAGCCCATGCTCCGCCAGGAGATACA 229
      |||||
DB    360 GGGTATTCTTAATCAGCGCTTGCAGAAGTGGTAACTATGCTACGCCAGGAGATACA 419

QY    230 GGAGACTGGATTGGAAACATTTTGGGTCTAATAAGTGTGTTTTGGGTGCAACATTGAAT 289
      |||||
DB    420 GGAGACTGGATTGGAACATTTTGGSGTCTAAAGCT-CTGTTTGGGTGCAACACTGAAT 478

QY    290 AAGATGCCACCACAAAGCTGGCGACAGCAGCTGCAGACTTCACAGCCAAAGTPATGGATGCG 349
      |||||
DB    479 AAGSATGCCACCACAAAGCAGCTACAGCAGCTGCAGAGTTTCACAGCCCAGSTGTGGATGCT 538

QY    350 GTCTCAGGAGATGAATTGATGACCGCTGGCTCATAGCAGCATTTGCAAGACTGTGGATTTC 409
      |||||
DB    539 GTCTCAGGANATNAATTGAT-AACTTGGCTCATAA-CACATTGTCAGAAGATGTGGATT-- 595

QY    410 ACACAGSAGTACAATTACCTNTAACTGGGGACAGGATAAAGTGTGCGCATATATGAC 469
      |||||
DB    596 -CCCAGGATATTATTTATTGTTTACGGGGANAGGAT-AAGTGTTCNCNTATTTTAA 653

QY    470 TTGAACAACCTGAACGACAGCAACCTAAGGAATC 502
      |||||
DB    654 TTGAACCAA-CTNAACCAAAAANTCTAAGGAATC 685
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RESULT 8
 US-08-232-463-14/c
 Sequence 14, Application US/05232463
 Patent No. 5670367
 GENERAL INFORMATION:
 APPLICANT: DORNER, F.
 APPLICANT: SCHEIFLINGER, F.
 APPLICANT: FALKNER, F. G.
 TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
 NUMBER OF SEQUENCES: 52
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Foley & Lardner
 STREET: 1800 Diagonal Road, Suite 500
 CITY: Alexandria
 STATE: VA
 COUNTRY: USA
 ZIP: 22313-0299
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/232.463
 FILING DATE:
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/07/935.313
 FILING DATE:
 APPLICATION NUMBER: EP 91 114 300.6
 FILING DATE: 26-AUG-1991
 ATTORNEY/AGENT INFORMATION:

```
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 30472/114 IMM
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)836-9300
; TELEFAX: (703)683-4109
; TELEX: 899149
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 7218 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; CLONE: pYZ9pt-Fls
US-08-232-463-14

Query Match          3.1%; Score 50.6; DB 1; Length 7218;
Best Local Similarity 5.6%; Pred. No. 0.0001;
Matches 23; Conservative 215; Mismatches 170; Indels 0; Gaps 0;

QY 921 TCATGCCAGCGTCTGAAGATGGGACATGTAGATTGTGGCAAACTGGTAGGAAAGA 980
||||| || ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1472 TCATGCAAGTAGTTAAAGATAGAGAAATTGGTACRRRRRRRRRRRRRRRRRRR 1413

QY 981 CCTATGCGCTGTGGAATCGTNTCTTCAGAGACAGACGCGGGAAGTGCACAA 1040
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1412 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1353

QY 1041 AGATCGSAITTCAGAAACACAGAGAGAGAGCTGCAGAGAAATTCCTTCAGAGA 1100
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1352 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1293

QY 1101 CAGATCCATCATCACTACTCTGAAGTTAAGCGCTGAGCATCAGAGCTGCTGCC 1160
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1292 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1233

QY 1161 GAACCATATGTTCATGACATAAACAAGCAGACAGACATCCGCTTCAGAGTTACT 1220
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1232 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1173

QY 1221 CTCGCTGAGGCAAGAGCGCAAAATATTGGGGCATATGAGTACGATCGACGAA 1280
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1172 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1113

QY 1281 CAGCTACTCAGTGTGCCGTGACTGAAATGCTCAGTGCTGAGGT 1328
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1112 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1065
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RESULT 9
US-09-385-982-449/c
; Sequence 449, Application US/09385982
; Patent No. 6262334
; GENERAL INFORMATION:
; APPLICANT: ENDEGE, WILSON O., ET AL.
; TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
; FILE REFERENCE: CCDNA-260XX
; CURRENT APPLICATION NUMBER: US/09/385,982
; CURRENT FILING DATE: 1999-08-30
; EARLIER APPLICATION NUMBER: 09/328,111
; EARLIER FILING DATE: 1999-06-08
; EARLIER APPLICATION NUMBER: 60/117,393
; EARLIER FILING DATE: 1999-01-27
; EARLIER APPLICATION NUMBER: 60/098,639
; EARLIER FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 544
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 449
; LENGTH: 577
; TYPE: DNA
; ORGANISM: Homo sapiens
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; NAME/KEY: misc.feature
; LOCATION: (1)...(577)
; OTHER INFORMATION: n = A,T,C or G
US-09-385-982-449

Query Match          3.0%; Score 48.2; DB 3; Length 577;
Best Local Similarity 65.1%; Pred. No. 0.00012;
Matches 71; Conservative 0; Mismatches 38; Indels 0; Gaps 0;

QY 837 ATTATAACAGTGGAGAGAGTTAGAAATCTCAAAAGTCACTTTGGTCCCATCACTGTG 896
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 141 ATTGGCCCTTTGAAGAAGAGTTTGAAGAGTCAAGGGTCACTTTGGACCTATCAACAGTG 82

QY 897 TGAGATTTCAGTCTCTGATGGGAACCTCTATGCCAGCGGTTCTGAAGATGG 945
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 81 TTGCCTTCCTCATCTGATGGCAAGAGCTACAGCAGCGCGCGGAGAGATGG 33

RESULT 10
US-09-385-982-323/c
; Sequence 323, Application US/09385982
; Patent No. 6262334
; GENERAL INFORMATION:
; APPLICANT: ENDEGE, WILSON O., ET AL.
; TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
; FILE REFERENCE: CCDNA-260XX
; CURRENT APPLICATION NUMBER: US/09/385,982
; CURRENT FILING DATE: 1999-08-30
; EARLIER APPLICATION NUMBER: 09/328,111
; EARLIER FILING DATE: 1999-06-08
; EARLIER APPLICATION NUMBER: 60/117,393
; EARLIER FILING DATE: 1999-01-27
; EARLIER APPLICATION NUMBER: 60/098,639
; EARLIER FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 544
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 323
; LENGTH: 647
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: misc.feature
; LOCATION: (1)...(647)
; OTHER INFORMATION: n = A,T,C or G
US-09-385-982-323

Query Match          3.0%; Score 48.2; DB 3; Length 647;
Best Local Similarity 65.1%; Pred. No. 0.00013;
Matches 71; Conservative 0; Mismatches 38; Indels 0; Gaps 0;

QY 837 ATTATAACAGTGGAGAGAGTTAGAAATCTCAAAAGTCACTTTGGTCCCATCACTGTG 896
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 141 ATTGGCCCTTTGAAGAAGAGTTTGAAGAGTCAAGGGTCACTTTGGACCTATCAACAGTG 82

QY 897 TGAGATTTCAGTCTCTGATGGGAACCTCTATGCCAGCGGTTCTGAAGATGG 945
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 81 TTGCCTTCCTCATCTGATGGCAAGAGCTACAGCAGCGCGCGGAGAGATGG 33

RESULT 11
US-08-188-582-17
; Sequence 17, Application US/08188582
; Patent No. 5534410
; GENERAL INFORMATION:
; APPLICANT: Tjian, Robert
; APPLICANT: Comai, Lucio
; APPLICANT: Dylact, Brian D.
; APPLICANT: Hoey, Timothy
; APPLICANT: Ruppert, Siegfried
; APPLICANT: Tanese, Naoko
; APPLICANT: Wang, Edith
```

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; APPLICANT: Weinzierl, Robert O.J.
; TITLE OF INVENTION: TATA-BINDING PROTEIN ASSOCIATED FACTORS,
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING TAFs AND METHODS OF USE
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FLEHR, HOBBACH, TEST, ALBRITTON & HERBERT
; STREET: 4 Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-4187
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/188,582
; FILING DATE: 28-JAN-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Osman, Richard A
; REGISTRATION NUMBER: 36,627
; REFERENCE/DOCKET NUMBER: A-57650-2/AJT/RAO
; TELEPHONE: (415) 781-1989
; TELEFAX: (415) 398-3249
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2152 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..2112
; US-08-188-582-17

Query Match 2.8%; Score 45.8; DB 1; Length 2152;
Best Local Similarity 48.8%; Pred. No. 0.0015;
Matches 122; Conservative 0; Mismatches 128; Indels 0; Gaps 0;

QY 751 TCCGCGACCAATCTCGCTCTNTTCATCCAGAGAGGAGTTCTTCTTGGGCTG 810
Db 1590 TCTTCTGAGTGATGTACCAATCCATCCAAATCTAATTATGTGCTAGGGCTC 1649
QY 811 AGAGACTTTAACTGTACAGTATGATTATACAGTGGAGAGAGTTAGAACTCTACAA 870
Db 1650 TGCAGACAGAACTGTGGGCTCTGGGACGCTCTGAATGTAAGTGTGAAGGATCTTAC 1709
QY 871 AGGTCACTTTGGTCCCACTGTGAGATTCAGTCTGATGGGAGACTCTATGCCAG 930
Db 1710 TGGACACAAGGACCAATCTCTTGCATTTTCCCAATGGGAGATTCCTGGGTAC 1769
QY 931 CGGTCTCTGAAGTGGAGACTGTGAGATTTGTGGCAAACTGTGGTAAAGAACTATGGCCT 990
Db 1770 AGGACCAAGATGGCAGAGTGCTCTTTGGGATATTGGACATGGTTTGAATGGAGA 1829
QY 991 GTGGAATGC 1000
Db 1830 ATTAAGGC 1839

RESULT 12
US-08-646-715-17
; Sequence 17, Application US/08646715
; Patent No. 5637686
; GENERAL INFORMATION:
; APPLICANT: Tjian, Robert
; APPLICANT: Comai, Lucio
; APPLICANT: Dnylact, Brian D.

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; APPLICANT: Hoev, Timothy
; APPLICANT: Ruppert, Siegfried
; APPLICANT: Tadese, Naoko
; APPLICANT: Wang, Edith
; APPLICANT: Weinzierl, Robert O.J.
; TITLE OF INVENTION: TATA-BINDING PROTEIN ASSOCIATED FACTORS,
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING TAFs AND METHODS OF USE
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FLEHR, HOBBACH, TEST, ALBRITTON & HERBERT
; STREET: 4 Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-4187
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/646,715
; FILING DATE: 09-MAY-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/188,582
; FILING DATE: 28-JAN-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Osman, Richard A
; REGISTRATION NUMBER: 36,627
; REFERENCE/DOCKET NUMBER: A-57650-2/AJT/RAO
; TELEPHONE: (415) 781-1989
; TELEFAX: (415) 398-3249
; TELEEX: 910 277299
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2152 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..2112
; US-08-646-715-17

Query Match 2.8%; Score 45.8; DB 1; Length 2152;
Best Local Similarity 48.8%; Pred. No. 0.0015;
Matches 122; Conservative 0; Mismatches 128; Indels 0; Gaps 0;

QY 751 TCCGCGACCAATCTCGCTCTNTTCATCCAGAGAGGAGTTCTTCTTGGGCTG 810
Db 1590 TCTTCTGAGTGATGTACCAATCCATCCAAATCTAATTATGTGCTAGGGCTC 1649
QY 811 AGAGACTTTAACTGTACAGTATGATTATACAGTGGAGAGAGTTAGAACTCTACAA 870
Db 1650 TGCAGACAGAACTGTGGGCTCTGGGACGCTCTGAATGTAAGTGTGAAGGATCTTAC 1709
QY 871 AGGTCACTTTGGTCCCACTGTGAGATTCAGTCTGATGGGAGACTCTATGCCAG 930
Db 1710 TGGACACAAGGACCAATCTCTTGCATTTTCCCAATGGGAGATTCCTGGGTAC 1769
QY 931 CGGTCTCTGAAGTGGAGACTGTGAGATTTGTGGCAAACTGTGGTAAAGAACTATGGCCT 990
Db 1770 AGGACCAAGATGGCAGAGTGCTCTTTGGGATATTGGACATGGTTTGAATGGAGA 1829
QY 991 GTGGAATGC 1000
Db 1830 ATTAAGGC 1839

RESULT 13

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US-08-965-600-2
; Sequence 2, Application US/08965600
; Patent No. 6077688
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Lal, Preeti
; APPLICANT: Corley, Neil C.
; APPLICANT: Shah, Purvi
; TITLE OF INVENTION: NEW TRANSDUCIN BETA-1 SUBUNIT
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/965,600
; FILING DATE: Herewith
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J,
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0416 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1221 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: KIDNOT02
; CLONE: 194046
; US-08-965-600-2

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Best Local Similarity 49.1%; Pred. No. 0.0032;
Matches 115; Conservative 0; Mismatches 119; Indels 0; Gaps 0;
QY 745 TGAAGCTCTGGGACCATCAATTCGCTCTNTTCATCCAGAGAGAGTTCTCTGTGC 804
Db 388 TGCAGACCTGTGGATGCTGCTTTTGGCTTTCTCTGATCCAGATCTGGCCAC 447
QY 805 GGGTGGAGAGACTTTAACTGTACAGATGATTAACAGTGGAGAGAGTTAGAAC 864
Db 448 AGGAACCTCATGTCGGGAAAGTGAACATTTTGGTGGGAAAGTGGGAAAGGAATATC 507
QY 865 CTACAAGGTCACTTTGGTCCATTCAGTGTGAGATTCAGTCTGATGGGAACTCA 924
Db 508 TTTGGACAGAGAGAAATTCATCTTAGTATTCATATAGTCTCTGATGGGAAATACCT 567
QY 925 TGGCAGCGGTTCTGAAGATGGACATTCAGATTCGCAAACTGTGGTAGGAAA 978
Db 568 AGCCAGTGGAGCCATAGATGGAATCAATATATTTTGATATTCGAAGTGGAAA 621

RESULT 14
US-09-489-506-2
; Sequence 2, Application US/09489506
; Patent No. 6463619

GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Lal, Preeti
; APPLICANT: Corley, Neil C.
; APPLICANT: Shah, Purvi
; TITLE OF INVENTION: NEW TRANSDUCIN BETA-1 SUBUNIT
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/489,506
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/965,600
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J,
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0416 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1221 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: KIDNOT02
; CLONE: 194046
; US-09-489-506-2

Query Match 2.7%; Score 44.2; DB 4; Length 1221;
Best Local Similarity 49.1%; Pred. No. 0.0032;
Matches 115; Conservative 0; Mismatches 119; Indels 0; Gaps 0;
QY 745 TGAAGCTCTGGGACCATCAATTCGCTCTNTTCATCCAGAGAGAGTTCTCTGTGC 804
Db 388 TGCAGACCTGTGGATGCTGCTTTTGGCTTTCTCTGATCCAGATCTGGCCAC 447
QY 805 GGGTGGAGAGACTTTAACTGTACAGATGATTAACAGTGGAGAGAGTTAGAAC 864
Db 448 AGGAACCTCATGTCGGGAAAGTGAACATTTTGGTGGGAAAGTGGGAAAGGAATATTC 507
QY 865 CTACAAGGTCACTTTGGTCCATTCAGTGTGAGATTCAGTCTGATGGGAACTCA 924
Db 508 TTTGGACAGAGAGAAATTCATCTTAGTATTCATATAGTCTCTGATGGGAAATACCT 567
QY 925 TGGCAGCGGTTCTGAAGATGGACATTCAGATTCGCAAACTGTGGTAGGAAA 978
Db 568 AGCCAGTGGAGCCATAGATGGAATCAATATATTTTGATATTCGAAGTGGAAA 621

RESULT 15
US-09-620-312D-867
; Sequence 867, Application US/09620312D
; Patent No. 6569662
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua


```
/ APPLICANT: Asundi, Vinod
/ APPLICANT: Zhang, Jie
/ APPLICANT: Ren, Feiyan
/ APPLICANT: Chen, Rui-hong
/ APPLICANT: Zhao, Qing A.
/ APPLICANT: Wehrman, Tom
/ APPLICANT: Xue, Aidong J.
/ APPLICANT: Yang, Yonghong
/ APPLICANT: Wang, Jian-Rui
/ APPLICANT: Zhou, Ping
/ APPLICANT: Ma, Yungding
/ APPLICANT: Wang, Dunrui
/ APPLICANT: Wang, Zhiwei
/ APPLICANT: John Tillinghast
/ APPLICANT: Dmanac, Radoje T.
/ TITLE OF INVENTION: No. 6569662el Nucleic Acids and
/ FILE REFERENCE: 784CIP2B
/ CURRENT APPLICATION NUMBER: US/09/620,312D
/ CURRENT FILING DATE: 2000-07-19
/ PRIOR APPLICATION NUMBER: 09/552,317
/ PRIOR FILING DATE: 2000-04-25
/ PRIOR APPLICATION NUMBER: 09/488,725
/ PRIOR FILING DATE: 2000-01-21
/ NUMBER OF SEQ ID NOS: 1105
/ SOFTWARE: PL_FL_genes Version 1.0
/ SEQ ID NO 867
/ LENGTH: 1326
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (307)..(1068)
US-09-620-312D-867

Query Match      2.6%; Score 42.6; DB 4; Length 1326;
Best Local Similarity 48.7%; Pred. No. 0.01;
Matches 114; Conservative 0; Mismatches 120; Indels 0; Gaps 0;

QY 745 TGAGCTCCGCGACCATCAATCTGGCTCTNTTCACAGAGAGAGGATTTCTGTTC 804
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Db 615 TGCAGGACCTGTGGATCGCTGGACTTTGGCTTTCTCTCTGATTCCTCCAGTATCTGCCAC 674

QY 805 GGGTGGAGAGACTTTAAACTGTACAAGTATGATTATAACAGTGGAGAGAGATTAGAATC 864
   || | | | | | | | | | | | | | | | | | | | | | | |
Db 675 AGGACTCATGTGCGGAAAGTGACATTTTGGTGGAAAGTGGGAAAGGAAATATTC 734

QY 865 CTACAAAGGTCACCTTTGGTCCCAATTCAGTGTGAGATTCACTCTGTATGGGAACTCTA 924
   | | | | | | | | | | | | | | | | | | | | | | | |
Db 735 TTGGACACGAGAGAGAAATTCATTTTATGATTGATATAGTCTCTGATGGAAATACCT 794

QY 925 TGCCAGCGTCTGAGATGGGACATTCAGATTGTGCAAACTGTGTAGGAAA 978
   ||||| | | | | | | | | | | | | | | | | | | | |
Db 795 AGCCAGTGGAGCCATAGTGAATCAATATTTTGTATTTGCAACTGGAAA 848

Search completed: October 3, 2003, 13:09:19
Job time : 113 secs
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GenCore version 5.1.1.6
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OM nucleic - nucleic search, using sw model

Run on: October 3, 2003, 13:07:17 ; Search time 984 seconds

(without alignments)

4225.515 Million cell updates/sec

Title: US-09-856-836-1

Perfect score: 1630

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Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1708419 seqs, 1275431651 residues

Total number of hits satisfying chosen parameters: 3416838

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

Published Applications_NA:*

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- 2: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq.*
- 3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq.*
- 4: /cgn2_6/ptodata/1/pubpna/US06_PUBCOMB.seq.*
- 5: /cgn2_6/ptodata/1/pubpna/US07_NEW_PUB.seq.*
- 6: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq.*
- 7: /cgn2_6/ptodata/1/pubpna/US08_NEW_PUB.seq.*
- 8: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq.*
- 9: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq.*
- 10: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq.*
- 11: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq.*
- 12: /cgn2_6/ptodata/1/pubpna/US09D_PUBCOMB.seq.*
- 13: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq.*
- 14: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq.*
- 15: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq.*
- 16: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq.*
- 17: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	805.4	49.4	1430	9	US-09-925-301-520 Sequence 520, App
2	438.4	28.1	646	13	US-10-027-632-267705 Sequence 267705,
3	456.8	28.0	646	13	US-10-027-632-267704 Sequence 267704,
4	375.8	23.1	437	10	US-09-960-352-8644 Sequence 8644, Ap
5	374.6	23.0	542	14	US-10-066-543-3341 Sequence 3341, Ap
6	351.2	21.5	509	14	US-10-066-543-3384 Sequence 3384, Ap
7	301	18.5	427	11	US-09-918-995-32982 Sequence 32982, A
8	243	14.9	313	9	US-09-815-343-740 Sequence 740, App
9	243	14.9	313	10	US-09-998-598-1947 Sequence 1947, Ap
10	240.8	14.8	686	9	US-09-735-705-36 Sequence 36, Appl
11	240.8	14.8	686	10	US-09-850-716A-36 Sequence 36, Appl
12	240.8	14.8	686	10	US-09-897-778-36 Sequence 36, Appl
13	240.8	14.8	686	11	US-09-466-396A-36 Sequence 36, Appl
14	240.8	14.8	686	12	US-10-117-982-36 Sequence 36, Appl
15	237.2	14.6	311	10	US-09-920-455-140 Sequence 140, App
16	227.2	13.9	533	13	US-10-027-632-267706 Sequence 267706,

Sequence 510, App
Sequence 22718, A
Sequence 57, Appl
Sequence 2482, Ap
Sequence 18802, A
Sequence 220, App
Sequence 323, App
Sequence 267707,
Sequence 267708,
Sequence 267709,
Sequence 278, App
Sequence 3070, Ap
Sequence 28597, A
Sequence 7155, Ap
Sequence 7155, Ap
Sequence 21, Appl
Sequence 14679, A
Sequence 2, Appl
Sequence 1500, Ap
Sequence 449, App
Sequence 9284, Ap
Sequence 5866, Ap
Sequence 29, Appl
Sequence 12998, A
Sequence 30, Appl
Sequence 3338, Ap
Sequence 2621, Ap
Sequence 9500, Ap

ALIGNMENTS

RESULT 1

US-09-925-301-520
; Sequence 520, Application US/0925301
; Patent No. US20020052308A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA106
; CURRENT APPLICATION NUMBER: US/09/925,301
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05882
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1694
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 520
; LENGTH: 1430
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (104)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: misc_feature
; LOCATION: (105)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: misc_feature
; LOCATION: (1428)
; OTHER INFORMATION: n equals a,t,g, or c
; US-09-925-301-520

Query Match 49.4%; Score 805.4; DB 9; Length 1430;

Best Local Similarity 82.0%; Pred. No. 1.5e-238;

Matches 1091; Conservative 0; Mismatches 201; Indels 38; Gaps 13;

QY 326 TTACAGCCAAAGTATGGGATGGCTCTCAGGAGATGAATGACCCCTGCTATAG 385

DB 39 TTACAGCCAAAGTATGGGATGGCTCTCAGGAGATGAATGACCCCTGCTATAG 98

QY	1444	GAAATAATATATGGCGCTATTTTCTGACCTTCCCTTAAGAAGAAAGCGCTTTTGTCCCT	1503
Db			
Db	1172	GAAAACTAATATGGCTGATTTTT---TCTGATCTTAAAGCAGAATGCGCTTTCTTTTT	1227
QY	1504	GCCT--AGTCATGAAGAGGAGGAATAACATGATAAAGTAACCGGTTTGATCTCTTTCAAT	1561
Db			
Db	1228	TGCTTCAGTTGTAAAGAAGAGGGAATACATGATAAAGTAACCTGGTTTGATTC--TGTT	1285
QY	1562	GTACAAGGACTGCTTCAGACAGCTCA--TATTTTTAGTTATCTAAATAAAATGCGCTCTAA	1620
Db			
Db	1286	CATTGTACACTGCCCTCTGAACACTAATGTTTTAGTTGTCTAATAAAAGCGCTCTAA	1345
QY	1621	AAATAAAAAA 1630	
Db			
Db	1346	AACAAAAA 1355	

RESULT 2
 US-10-027-632-267705
 ; Sequence 267705, Application US/10027632
 ; GENERAL INFORMATION:
 ; APPLICANT: Wang, David G.
 ; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
 ; POLYMORPHISMS IN THE HUMAN GENOME
 ; FILE REFERENCE: 10827.129
 ; CURRENT APPLICATION NUMBER: US/10/027,632
 ; CURRENT FILING DATE: 2002-04-30
 ; PRIOR APPLICATION NUMBER: US 60/218,006
 ; PRIOR FILING DATE: 2000-07-12
 ; PRIOR APPLICATION NUMBER: US 60/198,676
 ; PRIOR FILING DATE: 2000-04-20
 ; PRIOR APPLICATION NUMBER: US 60/193,483
 ; PRIOR FILING DATE: 2000-03-29
 ; PRIOR APPLICATION NUMBER: US 60/185,218
 ; PRIOR FILING DATE: 2000-02-24
 ; PRIOR APPLICATION NUMBER: US 60/167,363
 ; PRIOR FILING DATE: 1999-11-23
 ; PRIOR APPLICATION NUMBER: US 60/156,358
 ; PRIOR FILING DATE: 1999-09-28
 ; PRIOR APPLICATION NUMBER: US 60/146,002
 ; PRIOR FILING DATE: 1999-08-09
 ; NUMBER OF SEQ ID NOS: 325720
 ; SOFTWARE: FastSeq for Windows Version. 4.0
 ; SEQ ID NO 267705
 ; LENGTH: 646
 ; TYPE: DNA
 ; ORGANISM: Human
 US-10-027-632-267705

Query Match	28.1%;	Score 458.4;	DB 13;	Length 646;
Best Local Similarity	84.7%;	Pred. No. 4e-131;		
Matches 547;	Conservative	1;	Mismatches 94;	Indels 4; Gaps 3;

QY	334	CAAAAGTATGGGATGGGTCTCCAGGAGATGAATTTGATGACCTGGCTCATAGCACCAATGT	393
Db			
Db	4	CARAAGTGGGATGGCTATCCGAGGAGATGACTGATGACCTGGCTCATATAACACAATAT	63
QY	394	CAGACTGTGGATTTTCACACAGGATGACAAATACCTGNTACTGGGGGACAGATPAACT	453
Db			
Db	64	CAAGACTATGGATTTTCATCGCAGGATAGTAATTTGTTAAACCAGGGGACAGATAAACT	123
QY	454	GCTGCCATATATGACTTTGACAAACCTGACGACAACTTAAGGAATCACTGGGCCAC	513
Db			
Db	134	GTTTTGCATATATGACTTTGAACAAACCCGAGCAGAACCTGAGGAATATAGTGATCACAG	193
QY	514	TTCTGTTATATAAAGGCTCTGTGGTCAGTGCAGTACGATGAACATAAAGACAGATCTT	573
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Db	194	CTCTGATATAAAGGCCCTATGGTACAGTGAAGTAAACAGATCTTCTCTGTGAGA	243
QY	574	TAAACTGTT--CGGCTCTGGGATCATGCCAATGACAGAGTGAATCTCTGAATTTTA	632
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Db	244	CAAACTGTAAAGACTTTGGGATCGTACTATGACAGAGTGAATCTCTTAAATTTTA	303

QY 633 ATATGCTGCTGTAGCAGCATGAGTATATCTCGAGGAGAGATTTGGTTATTACTTATG 692
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Db 304 TTAGTGCTGTAGTATGATGATATATCTGAGGAGAGATTTGGTTATTACTTATG 363
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QY 693 GAGCAGTCTATGCTTTTCATAGTGCAGTATGCTGAGCCATTAATTCCTTTGAAGC 752
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Db 364 GCTGATCCAGTCTTTTACAGTATGATGATGATGATGATGATGATGATGATGATG 423
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QY 753 CTGGACCATTAATCTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 812
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Db 424 CTGCAACATTAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 483
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QY 813 AAGACTTTAACTGATGATGATGATGATGATGATGATGATGATGATGATGATG 872
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Db 484 AAGATGTTAACT-TATAGTATGATGATGATGATGATGATGATGATGATGATG 542
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QY 873 GTCACTTTGGTCCCATTCACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 932
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Db 543 GACACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 602
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 933 GTTCTGAAGATGGGACATGATGATGATGATGATGATGATGATGATGATGATG 978
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 603 GTTCTGAAGATGGGACATGATGATGATGATGATGATGATGATGATGATGATG 646
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RESULT 3

US-10-027-632-267704
; Sequence 267704, Application US/10027632
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; POLYMORPHISMS IN THE HUMAN GENOME
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 267704
; TYPE: DNA
; ORGANISM: Human

US-10-027-632-267704

Query Match 28.0%; Score 456.8; DB 13; Length 646;
Best Local Similarity 84.5%; Pred. No. 1.2e-130;
Matches 546; Conservative 1; Mismatches 95; Indels 4; Gaps 3;
QY 334 CAAAGTATGGGATGGGCTCAGGAGATGAATGATGATGATGATGATGATGATGATG 393
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Db 4 CAAAGTATGGGATGGGCTCAGGAGATGAATGATGATGATGATGATGATGATGATG 63
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QY 394 CAAGACTGTGATTTACACACAGATGATGATGATGATGATGATGATGATGATGATG 453
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Db 64 CAAGACTGTGATTTACACACAGATGATGATGATGATGATGATGATGATGATGATG 123
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QY 454 GCTGCGCATATGATTTGATGATGATGATGATGATGATGATGATGATGATGATG 513
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 124 GTTTTGCATATGATTTGAACAAACCCGAGAGAACTGAGGAAATTAATGATGATG 183
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

QY 514 TTCTGCTATTAARAGGCTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 573
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 184 CTCTGATATTAARAGGCTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 243
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 574 TAAACTGTTT-CGGCTCTGGGATCATGCCACAAATGACAGAGAGTGAATCTCTGAATTTA 632
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 244 CAAACTGTTAAGACTTTGGGATCATGCCACAAATGACAGAGAGTGAATCTCTGAATTTA 303
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 633 ATATGCTTCTAGCAGCATGAGTATATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 692
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 304 TTATGTTGCTAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATG 363
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QY 693 GAGACTATGCTTTTCATAGTGCAGTATGCTGAGCCATTAATTCCTTTGAGCTC 752
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 364 GCTGATCCAGTCTTTTACAGTATGATGATGATGATGATGATGATGATGATGATG 423
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QY 753 CTGCGACCATTAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 812
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 424 CTGCAACATTAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 483
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 813 AAGACTTTAACTGATGATGATGATGATGATGATGATGATGATGATGATGATG 872
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Db 484 AAGATGTTAACT-TATAGTATGATGATGATGATGATGATGATGATGATGATG 542
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 873 GTCACTTTGGTCCCATTCACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 932
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Db 543 GACACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 602
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QY 933 GTTCTGAAGATGGGACATGATGATGATGATGATGATGATGATGATGATGATG 978
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 603 GTTCTGAAGATGGGACATGATGATGATGATGATGATGATGATGATGATGATG 646
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RESULT 4

US-09-960-352-8644
; Sequence 8644, Application US/09960352
; Patent No. US20020137139A1
; GENERAL INFORMATION:
; APPLICANT: Warren, Wesley C.
; APPLICANT: Tao, Ningbing
; APPLICANT: Byatt, John C.
; APPLICANT: Mathialagan, Nagappan
; TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION ANI
; FILE REFERENCE: 16511.006/37-21(10298)C
; CURRENT APPLICATION NUMBER: US/09/960,352
; CURRENT FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 15112
; SEQ ID NO 8644
; LENGTH: 437
; TYPE: DNA
; ORGANISM: Bos taurus
; OTHER INFORMATION: Clone ID: 37-LIB3058-054-Q1-K1-B2
US-09-960-352-8644

Query Match 23.1%; Score 375.8; DB 10; Length 437;
Best Local Similarity 91.3%; Pred. No. 1.3e-105;
Matches 398; Conservative 0; Mismatches 38; Indels 0; Gaps 0;
QY 495 AGGAATCTAGTGGCCACACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 554
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Db 1 AGGAATCTAGTGGCCACACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 60
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 555 AGATCTCTTCAGCGGATGATGATGATGATGATGATGATGATGATGATGATGATG 614
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 61 AGATCTCTTCAGCGGATGATGATGATGATGATGATGATGATGATGATGATGATG 120
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 615 TGAATCTCTGAATTTTAAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 674
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 121 TGAATCTCTGAATTTTAAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 180
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 675 TTTTGGTTATTAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 734
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Db 181 TTGTGTAATAACTATGAGGATCTATTGCTTTTCATAGTCAGTAAGTTGGACCAA 240
 QY 735 TTAATTCCTTGAAGCTCTCGCAACATCAATTCGCTCTNTTCATCAGAGAGAGT 794
 Db 241 TTAATTCCTTGAAGCTCTCGCAACATCAATTCGCTCTNTTCATCAGAGAGAGT 300
 QY 795 TTCTTCTGCGGGTGGAGAGACTTTAAACTGTACAAGTATGATATATAACAGTGGAGAG 854
 Db 301 TTCTTCTGCGGGTGGAGAGACTTTAAACTGTACAAGTATGATATATAACAGTGGAGAG 360
 QY 855 AGTTAGATCTTACAAAGGTCACCTTTGGTCCCAATTCAGTGTGAGAGTCACTCTGATG 914
 Db 361 AATTAGATCTTACAAAGGTCACCTTTGGTCCCAATTCAGTGTGAGAGTCACTCTGATG 420
 QY 915 GGGAACTCTATGCCAG 930
 Db 421 GAGAACTCTATGCCAG 436

RESULT 5

US-10-066-543-3341
 ; Sequence 3341, Application US/10066543
 ; Publication No. US20030087818A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Jiang, Yugu
 ; APPLICANT: Pyle, Ruth A.
 ; APPLICANT: Xu, Jiangchun
 ; APPLICANT: Indrias, Carol Yoseph
 ; APPLICANT: Lodes, Michael J.
 ; APPLICANT: Secrist, Heather
 ; APPLICANT: Carter, Darick
 ; APPLICANT: Fanger, Gary R.
 ; APPLICANT: Smith, Carole L.
 ; APPLICANT: Durham, Margarita
 ; APPLICANT: Stolk, John A.
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
 ; FILE REFERENCE: 210121.563
 ; CURRENT APPLICATION NUMBER: US/10/066,543
 ; NUMBER OF SEQ ID NOS: 3417
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 3341
 ; LENGTH: 542
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-10-066-543-3341

Query Match 23.0%; Score 374.6; DB 14; Length 542;
 Best Local Similarity 84.0%; Pred. No. 3.6e-105;
 Matches 458; Conservative 0; Mismatches 81; Indels 6; Gaps 3;
 QY 734 ATTAATCTTTGAAGCTCTCGCAACATCAATTCGCTCTNTTCATCAGAGAGAG 793
 Db 1 ATTAATCTTTGAAGCTCTCGCAACATCAATTCGCTCTNTTCATCAGAGAGAG 60
 QY 794 TTCTTGTGCGGGTGGAGAGACTTTAAACTGTACAAGTATGATATATAACAGTGGAGAG 853
 Db 61 TTCTTGTGCGGGTGGAGAGACTTTAAACTGTACAAGTATGATATATAACAGTGGAGAG 120
 QY 854 GAGTTAGATCTTACAAAGGTCACCTTTGGTCCCAATTCAGTGTGAGAGTCACTCTGAT 913
 Db 121 GAATTAGATCTTACAAAGGTCACCTTTGGTCCCAATTCAGTGTGAGAGTCACTCTGAT 180
 QY 914 GGGAACTCTATGCCAGGTTCTGAAGATGGAGATGAGATTGGCAACTGTGTA 973
 Db 181 GGAAGTCTATGCCAGGTTCTGAAGATGGAGATGAGATTGGCAACTGTGTA 240
 QY 974 GGAAGTCTATGCCAGGTTCTGAAGATGGAGATGAGATTGGCAACTGTGTA 1033
 Db 241 GGAAGTCTATGCCAGGTTCTGAAGATGGAGATGAGATTGGCAACTGTGTA 300
 QY 1034 AACCAAGATCGGATTTCCAGAAACAGCAGAGAGAGCTGGCAGAGAAATATGCTTCA 1093

Db 301 ASGCCAAAGATGGTTTCCAGAGCACAGAGAGGCT---AGAGAAATGCTTCA 357
 QY 1094 GAGATTGAGATTCCATPCATATCACTCTCTGAAAGTTAAGCCCTGAGCATCAGAGTG 1153
 Db 358 GAGATTGAGATTCCATPCATATCACTCTCTGAAAGTTAAGCCCTGAGCATCAGAGTG 417
 QY 1154 TGCTCCCAAGACCAT--ATGTTCAAGGACTAAACAACAGCAGAGAGCATCCGCTT-CA 1210
 Db 418 TGTTCAGATTAGTATACACTGCTAAACAGCAGAGAGCATCAGAGAGCATCAGCTTCCA 477
 QY 1211 GAGTTACTGCTGCTGAGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1270
 Db 478 GAGTTACTGCTGCTGAGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 537
 QY 1271 AGTGC 1275
 Db 538 AGTGC 542

RESULT 6
 US-10-066-543-3384
 ; Sequence 3384, Application US/10066543
 ; Publication No. US20030087818A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Jiang, Yugu
 ; APPLICANT: Pyle, Ruth A.
 ; APPLICANT: Xu, Jiangchun
 ; APPLICANT: Indrias, Carol Yoseph
 ; APPLICANT: Lodes, Michael J.
 ; APPLICANT: Secrist, Heather
 ; APPLICANT: Carter, Darick
 ; APPLICANT: Fanger, Gary R.
 ; APPLICANT: Smith, Carole L.
 ; APPLICANT: Durham, Margarita
 ; APPLICANT: Stolk, John A.
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
 ; FILE REFERENCE: 210121.563
 ; CURRENT APPLICATION NUMBER: US/10/066,543
 ; NUMBER OF SEQ ID NOS: 3417
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 3384
 ; LENGTH: 509
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-10-066-543-3384

Query Match 21.5%; Score 351.2; DB 14; Length 509;
 Best Local Similarity 84.2%; Pred. No. 6.2e-98;
 Matches 431; Conservative 0; Mismatches 75; Indels 6; Gaps 3;
 QY 734 ATTAATCTTTGAAGCTCTCGCAACATCAATTCGCTCTNTTCATCAGAGAGAG 793
 Db 1 ATTAATCTTTGAAGCTCTCGCAACATCAATTCGCTCTNTTCATCAGAGAGAG 60
 QY 794 TTCTTGTGCGGGTGGAGAGACTTTAAACTGTACAAGTATGATATATAACAGTGGAGAG 853
 Db 61 TTCTTGTGCGGGTGGAGAGACTTTAAACTGTACAAGTATGATATATAACAGTGGAGAG 120
 QY 854 GAGTTAGATCTTACAAAGGTCACCTTTGGTCCCAATTCAGTGTGAGATGAGTCACTCTGAT 913
 Db 121 GAATTAGATCTTACAAAGGTCACCTTTGGTCCCAATTCAGTGTGAGATGAGTCACTCTGAT 180
 QY 914 GGGAACTCTATGCCAGGTTCTGAAGATGGAGATGAGATTGGCAACTGTGTA 973
 Db 181 GGAAGTCTATGCCAGGTTCTGAAGATGGAGATGAGATTGGCAACTGTGTA 240
 QY 974 GGAAGTCTATGCCAGGTTCTGAAGATGGAGATGAGATTGGCAACTGTGTA 1033
 Db 241 GGAAGTCTATGCCAGGTTCTGAAGATGGAGATGAGATTGGCAACTGTGTA 300

QY 1034 AAGCCAAAGATCGATTTCAGAAACACAGAGAGAGAGCTGGCAGAGAAATTCCTTCA 1093
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Db 301 AAGCCAAAGATGGTTTCCAGAGACACAGAGAGAGCT--AGAGAAATTCCTTCA 357
QY 1094 GAGAAATTCAGATTCATATTCATCACTCCCTGAAGTTAAGCCCTGAGCATCAGACGTG 1153
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Db 358 GAGAAATTCAGATTCATATTCATCACTCCCTGAAGTTAAGCCCTGAGCATCAGACGTG 417
QY 1154 TCGTGGCGAAACCAT--ATGTTTCATGGACTAAACAAGACAGACAGATCCGCTTCA 1210
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Db 418 TGTTCAGTTAGTATACACTGCTAAACAAGACAGACAGATCCGCTTCA 477
QY 1211 GAGTACTGTCCTCGGAGGCAAGAGGGCAG 1242
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Db 478 GAGTACTGTCCTCGGAGGCAAGAGGGCAG 509
RESULT 7
US-09-918-995-32982
; Sequence 32982, Application US/09918995
; Publication No. US20030073623A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
; FILE REFERENCE: 20411-736
; CURRENT APPLICATION NUMBER: US/09/918,995
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US/09/235,076
; PRIOR FILING DATE: 1999-01-20
; NUMBER OF SEQ ID NOS: 38054
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 32982
; LENGTH: 427
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-918-995-32982

Query Match 18.5%; Score 301; DB 11; Length 427;
Best Local Similarity 85.3%; Pred. No. 2.1e-82;
Matches 347; Conservative 0; Mismatches 57; Indels 3; Gaps 1;
QY 763 CAATTCCTCGCTTCATCCAGAGAGAGGTTCTTGTGGGTGGAGAGACTTTAA 822
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Db 11 CGATTCGCACTTCATCCAGAGAGAGGTTCTTGTGGGTGGAGAGACTTTAA 70
QY 823 ACTGTACAGATGATATATACAGTGGAGAGAGTTAGATCCTACAAAGTCACTTGG 882
|||||
Db 71 ACTTTATAGATGATATATATAGTGGAGAGAGTTAGATCCTACAAAGGACACTTGG 130
QY 883 TCCCATTCAGTGTGAGATTCAGTCTGATGGGAACTATGCCAGCGTTCTGAGA 942
|||||
Db 131 TCCATTCAGTGTGAGATTCAGTCTGATGGGAACTATGCCAGCGTTCTGAGA 190
QY 943 TGGGACATTCAGATTTGGCAACTGTGTAGAGAAAGACCTATGCCCTGTGGAATCGT 1002
|||||
Db 191 TGGAACTTCAGATTCAGTGTGTAGAGAAAGACCTATGCCCTGTGGAATCGT 250
QY 1003 GNTTCTCAGAGAGAGAGCGGGGACTGCGAAAGCCAAAGATCGATTCAGAAAGC 1062
|||||
Db 251 GTTCTCAGAGAGAGAGTGGTGGTGGGAAAGCCAAAGATTCAGAAAGC 310
QY 1063 AGAGGAGAGTGGCAGAGAAATTCCTCAGAGAAATTCAGATTCATTCATCAAC 1122
|||||
Db 311 AGAGAGAGAGT--AGAGAAATTCCTCAGAGAAATTCAGATTCATTCATCAAC 367
QY 1123 TCTGAGTAAAGCCCTGAGCATCAGATTCAGATTCAGATTCATTCATCAAC 1169
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Db 368 TCTGATGTTAAGCCCTGAGCATCAGATTCAGATTCAGATTCATTCATCAAC 414

RESULT 8
US-09-815-343-740

; Sequence 740, Application US/09815343
; Patent No. US20010055596A1
; GENERAL INFORMATION:
; APPLICANT: Meagher, Madeleine
; APPLICANT: Xu, Jiangchun
; APPLICANT: King, Gordon E.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.504
; CURRENT APPLICATION NUMBER: US/09/815,343
; CURRENT FILING DATE: 2001-03-22
; NUMBER OF SEQ ID NOS: 1556
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 740
; LENGTH: 313
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-815-343-740
Query Match 14.9%; Score 243; DB 9; Length 313;
Best Local Similarity 87.7%; Pred. No. 1.6e-64;
Matches 277; Conservative 0; Mismatches 36; Indels 3; Gaps 1;
QY 821 AACTGTACAGTATGATTATACAGTGGAGAGAGTTAGATCCTACAAAGTCACTTT 880
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Db 1 AACTTTATAGTATGATTATATAGTGGAGAGAGTTAGATCCTACAAAGGACACTTT 60
QY 881 GTCCCATTCAGTGTGAGATTCAGTCTGATGGGAACTTATGCCAGCGTTTGAA 940
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Db 61 GTCCCATTCAGTGTGAGATTCAGTCTGATGGGAACTTATGCCAGCGTTTGAA 120
QY 941 GATGGGACATTCAGATTCGTGCAAACTGTGTAGAGAGAGTATGCCGTGTGGAATTC 1000
|||||
Db 121 GATGGGACATTCAGATTCGTGCAAACTGTGTAGAGAGAGTATGCCGTGTGGAATTC 180
QY 1001 GTGTTCTCTGAGAGAGAGCGGGAACTGGCAAAAGATCGGATTCAGAAACA 1060
|||||
Db 181 GTGTTCTCTGAGAGAGAGTGTGTGAGTGGCAAAAGATTCGTTTCCAGAGACA 240
QY 1061 GCAGAGAGAGCTGGCAGAGAGAAATTCGTTGAGAGATTCAGATTCATTCATCA 1120
|||||
Db 241 ACAGAGAGAGAGCT--AGAGAAATTCGTTGAGAGATTCAGATTCATTCATCA 297
QY 1121 ACTCCTGAAAGTTAAGG 1136
Db 298 GCTCCTGAGTTAAGG 313
RESULT 9
US-09-998-598-1947
; Sequence 1947, Application US/09998598
; Patent No. US20020150922A1
; GENERAL INFORMATION:
; APPLICANT: Stoik, John A.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Chenault, Ruth A.
; APPLICANT: Meagher, Madelein Joy
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.561
; CURRENT APPLICATION NUMBER: US/09/998,598
; CURRENT FILING DATE: 2001-11-16
; NUMBER OF SEQ ID NOS: 2606
; SOFTWARE: Corixa Invention Disclosure Database
; SEQ ID NO 1947
; LENGTH: 313
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-998-598-1947
Query Match 14.9%; Score 243; DB 10; Length 313;
Best Local Similarity 87.7%; Pred. No. 1.6e-64;
Matches 277; Conservative 0; Mismatches 36; Indels 3; Gaps 1;

Search completed: October 3, 2003, 13:25:51
Job time : 987 secs

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RESULT 15
US-09-920-455-140
; Sequence 140, Application US/09920455
; Patent No. US20020168647A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY

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OM protein - protein search, using sw model

Run on: October 3, 2003, 13:07:56 ; Search time 22 Seconds
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675.051 Million cell updates/sec

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Sequence: 1 MAMQPLFCSGHTRPVVDX.....ETIASNSDSIYSTPEVKA 351

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Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA: *

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2: /cgn2_6/ptodata/1/iaa/5B.COMB.pep:*

3: /cgn2_6/ptodata/1/iaa/6A.COMB.pep:*

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6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	1779.5	96.7	350	2	US-08-828-922-1
2	293.5	16.0	251	4	US-09-291-170A-13
3	293.5	16.0	251	4	US-09-724-884-13
4	268	14.6	325	2	US-08-828-922-3
5	263.5	14.3	1194	3	US-09-092-508-2
6	263.5	14.3	1194	4	US-09-435-115-2
7	263.5	14.3	1194	4	US-09-069-023-26
8	263.5	14.3	1194	4	US-09-098-310-2
9	263.5	14.3	1205	3	US-09-092-508-16
10	263.5	14.3	1205	4	US-09-435-115-16
11	238.5	13.0	704	1	US-08-188-582-18
12	238.5	13.0	704	1	US-08-646-715-18
13	226.5	12.3	250	4	US-09-291-170A-12
14	226.5	12.3	250	4	US-09-724-884-12
15	222	12.1	798	1	US-08-190-802A-64
16	222	12.1	798	1	US-08-190-802A-68
17	222	12.1	798	2	US-08-308-818-2
18	222	12.1	798	3	US-08-477-346-64
19	222	12.1	798	3	US-08-477-346-68
20	222	12.1	798	4	US-08-473-089-64
21	222	12.1	798	4	US-08-473-089-68
22	222	12.1	798	4	US-08-487-072A-64
23	222	12.1	798	4	US-08-487-072A-68
24	221.5	12.0	409	2	US-08-283-917-3
25	221.5	12.0	409	2	US-08-961-716-3
26	221.5	12.0	410	2	US-08-283-917-9
27	221.5	12.0	410	2	US-08-961-716-9

28	217	11.8	409	1	US-08-190-802A-51	Sequence 51, Appl
29	217	11.8	409	3	US-08-477-346-51	Sequence 51, Appl
30	217	11.8	409	4	US-08-473-089-51	Sequence 51, Appl
31	217	11.8	409	4	US-08-487-072A-51	Sequence 51, Appl
32	214	11.6	318	1	US-08-190-802A-33	Sequence 33, Appl
33	214	11.6	318	3	US-08-477-346-33	Sequence 33, Appl
34	214	11.6	318	4	US-08-473-089-33	Sequence 33, Appl
35	214	11.6	318	4	US-08-487-072A-33	Sequence 33, Appl
36	205.5	11.2	514	1	US-08-190-802A-66	Sequence 66, Appl
37	205.5	11.2	514	3	US-08-477-346-66	Sequence 66, Appl
38	205.5	11.2	514	4	US-08-473-089-66	Sequence 66, Appl
39	205.5	11.2	514	4	US-08-487-072A-66	Sequence 66, Appl
40	200	10.9	514	4	US-09-108-857-2	Sequence 2, Appl
41	199.5	10.8	340	1	US-08-190-802A-38	Sequence 38, Appl
42	199.5	10.8	340	3	US-08-477-346-38	Sequence 38, Appl
43	199.5	10.8	340	4	US-08-473-089-38	Sequence 38, Appl
44	199.5	10.8	340	4	US-08-487-072A-38	Sequence 38, Appl
45	199.5	10.8	340	4	US-09-245-039-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1
US-08-828-922-1
; Sequence 1, Application US/08828922
; Patent No. 5834240
; GENERAL INFORMATION:
; APPLICANT: Olga, Bandman
; APPLICANT: Preeti, Lal
; TITLE OF INVENTION: TRANSFORMING GROWTH FACTOR-B RECEPTOR
; TITLE OF INVENTION: ASSOCIATED PROTEIN
; NUMBER OF SEQUENCE: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/828,922
; FILING DATE: Herewith
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0258 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 350 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: BRAIT01
; CLONE: 753423
US-08-828-922-1

Query Match 96.7%; Score 1779.5; DB 2; Length 350;
Best Local Similarity 96.0%; Pred. No. 8.3e-175;

Matches 337; Conservative 4; Mismatches 9; Indels 1; Gaps 1;

QY 1 MAMRQPLFCSGHTPPVVDYAFSGITPYGYFLISACKDGKPMALRQGTGWTGTLGHKG 60
DB 1 MEMRQPLFCSGHTPPVVDYAFSGITPYGYFLISACKDGKPMALRQGTGWTGTLGHKG 60

QY 61 AVWGATLNKDATKAATAADFTAKVWDVAVSGDELMTLAKKHIVKTVDFTDSDNYLXTGGQ 120
DB 61 AVWGATLNKDATKAATAADFTAKVWDVAVSGDELMTLAKKHIVKTVDFTDSDNYLXTGGQ 120

QY 121 DKLLRYDLNKPAPKPSIGHTSGIKKALWCSDKQILSADDTVRLWDMHATMTVEKSL 180
DB 121 DKLLRYDLNKPAPKPSIGHTSGIKKALWCSDKQILSADDTVRLWDMHATMTVEKSL 180

QY 181 NFMNYSMSMEYIPEGEILVITYGSTAFHSNLSLEPIKSPAPATINSASLHPEKEFLVA 240
DB 181 NFMNYSMSMEYIPEGEILVITYGSTAFHSNLSLEPIKSPAPATINSASLHPEKEFLVA 240

QY 241 GGEDFKLYKYDYNNGEELSYKGFPIHCVRFSPDGELYASGSDGTLRLWTVVVGKTY 300
DB 241 GGEDFKLYKYDYNNGEELSYKGFPIHCVRFSPDGELYASGSDGTLRLWTVVVGKTY 300

QY 301 GLMKVCYPEDSGELAKPKIGFPTABEELABEIASENSDDSIYSTPEVKA 351
DB 301 GLMKVCYPEDSGELAKPKIGFPTABEELABEIASENSDDSIYSTPEVKA 351

RESULT 2
US-09-291-170A-13
; Sequence 13, Application US/09291170A
; Patent No. 6410687
; GENERAL INFORMATION:
; APPLICANT: Vale, Ronald D.
; APPLICANT: Hartman, James J.
; APPLICANT: The Regents of the University of California
; TITLE OF INVENTION: Assays for the Detection of Microtubule
; TITLE OF INVENTION: Depolymerization Inhibitors
; FILE REFERENCE: 18557B-000510US
; CURRENT APPLICATION NUMBER: US/09/291,170A
; PRIOR FILING DATE: 1999-04-13
; PRIOR APPLICATION NUMBER: US 60/081,734
; PRIOR FILING DATE: 1998-04-14
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 13
; TYPE: PRT
; ORGANISM: Thermomonospora curvata
; FEATURE:
; OTHER INFORMATION: putative serine/threonine kinase Pkwa WD40 repeat
; OTHER INFORMATION: region
US-09-291-170A-13

Query Match 16.0%; Score 293.5; DB 4; Length 251;
Best Local Similarity 28.5%; Pred. No. 5.6e-22;
Matches 71; Conservative 48; Mismatches 125; Indels 5; Gaps 5;

QY 48 TGDWIGTFLGHKGAVGATLNKDATKAATAADFTAKVWDVAVSGDELMTL-AHKHIVKTV 106
DB 2 SGDELHTEGHTDWRVAVSPDGDALLASGDDATVRLWDVAAAEERAVFEGHTHYVLDI 61

QY 107 DFTQDSNYLXTGGQKLLRYDLNKPAPKPSIGHTSGIKKALWCSDKQILSAD-DKT 165
DB 62 AFSPDGSVMASGSDGTARLWNV-ATGTEHAVLKGTDDYVYVAVSPDGSVMASGSDGT 120

QY 166 VRLWDHATMTVEKSLNFMN-SVSSMEYIPEGEILVITYGSTAFHSNLSLEPIKSPAP 224
DB 121 IRLWDVATGKERDVLQAPAEENVYSLAFSPDGSMLVHGSDDTVRLWDVAVSGEALHTFEHT 180

QY 225 T-INSASXHPKEFLVAGGEDFKLYKYDYNNGEELSYKGFPIHCVRFSPDGELYASG 283
DB 181 DWYVAVSPDGDALLASGDDATVRLWDVAAAEERAVFEGHTHYVLDI 240

QY 284 SEDGTLRLW 292
DB 241 SEDGTLRLW 249

RESULT 4
US-08-828-922-3
; Sequence 3, Application US/08828922
; Patent No. 5834240
; GENERAL INFORMATION:
; APPLICANT: Olga, Bandman
; APPLICANT: Preeti, Lal
; TITLE OF INVENTION: TRANSFORMING GROWTH FACTOR-B RECEPTOR
; TITLE OF INVENTION: ASSOCIATED PROTEIN
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESS: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304

Matches 337; Conservative 4; Mismatches 9; Indels 1; Gaps 1;

QY 1 MAMRQPLFCSGHTPPVVDYAFSGITPYGYFLISACKDGKPMALRQGTGWTGTLGHKG 60
DB 1 MEMRQPLFCSGHTPPVVDYAFSGITPYGYFLISACKDGKPMALRQGTGWTGTLGHKG 60

QY 61 AVWGATLNKDATKAATAADFTAKVWDVAVSGDELMTLAKKHIVKTVDFTDSDNYLXTGGQ 120
DB 61 AVWGATLNKDATKAATAADFTAKVWDVAVSGDELMTLAKKHIVKTVDFTDSDNYLXTGGQ 120

QY 121 DKLLRYDLNKPAPKPSIGHTSGIKKALWCSDKQILSADDTVRLWDMHATMTVEKSL 180
DB 121 DKLLRYDLNKPAPKPSIGHTSGIKKALWCSDKQILSADDTVRLWDMHATMTVEKSL 180

QY 181 NFMNYSMSMEYIPEGEILVITYGSTAFHSNLSLEPIKSPAPATINSASLHPEKEFLVA 240
DB 181 NFMNYSMSMEYIPEGEILVITYGSTAFHSNLSLEPIKSPAPATINSASLHPEKEFLVA 240

QY 241 GGEDFKLYKYDYNNGEELSYKGFPIHCVRFSPDGELYASGSDGTLRLWTVVVGKTY 300
DB 241 GGEDFKLYKYDYNNGEELSYKGFPIHCVRFSPDGELYASGSDGTLRLWTVVVGKTY 300

QY 301 GLMKVCYPEDSGELAKPKIGFPTABEELABEIASENSDDSIYSTPEVKA 351
DB 301 GLMKVCYPEDSGELAKPKIGFPTABEELABEIASENSDDSIYSTPEVKA 351

RESULT 2
US-09-291-170A-13
; Sequence 13, Application US/09291170A
; Patent No. 6410687
; GENERAL INFORMATION:
; APPLICANT: Vale, Ronald D.
; APPLICANT: Hartman, James J.
; APPLICANT: The Regents of the University of California
; TITLE OF INVENTION: Assays for the Detection of Microtubule
; TITLE OF INVENTION: Depolymerization Inhibitors
; FILE REFERENCE: 18557B-000510US
; CURRENT APPLICATION NUMBER: US/09/291,170A
; PRIOR FILING DATE: 1999-04-13
; PRIOR APPLICATION NUMBER: US 60/081,734
; PRIOR FILING DATE: 1998-04-14
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 13
; TYPE: PRT
; ORGANISM: Thermomonospora curvata
; FEATURE:
; OTHER INFORMATION: putative serine/threonine kinase Pkwa WD40 repeat
; OTHER INFORMATION: region
US-09-291-170A-13

Query Match 16.0%; Score 293.5; DB 4; Length 251;
Best Local Similarity 28.5%; Pred. No. 5.6e-22;
Matches 71; Conservative 48; Mismatches 125; Indels 5; Gaps 5;

QY 48 TGDWIGTFLGHKGAVGATLNKDATKAATAADFTAKVWDVAVSGDELMTL-AHKHIVKTV 106
DB 2 SGDELHTEGHTDWRVAVSPDGDALLASGDDATVRLWDVAAAEERAVFEGHTHYVLDI 61

QY 107 DFTQDSNYLXTGGQKLLRYDLNKPAPKPSIGHTSGIKKALWCSDKQILSAD-DKT 165
DB 62 AFSPDGSVMASGSDGTARLWNV-ATGTEHAVLKGTDDYVYVAVSPDGSVMASGSDGT 120

QY 166 VRLWDHATMTVEKSLNFMN-SVSSMEYIPEGEILVITYGSTAFHSNLSLEPIKSPAP 224
DB 121 IRLWDVATGKERDVLQAPAEENVYSLAFSPDGSMLVHGSDDTVRLWDVAVSGEALHTFEHT 180

QY 225 T-INSASXHPKEFLVAGGEDFKLYKYDYNNGEELSYKGFPIHCVRFSPDGELYASG 283
DB 181 DWYVAVSPDGDALLASGDDATVRLWDVAAAEERAVFEGHTHYVLDI 240

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; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/828,922
; FILING DATE: Herewith
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0258 US
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 325 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 1036805
; US-08-828-922-3

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Query Match 14.68; Score 268; DB 2; Length 325;
Best Local Similarity 24.5; Pred. No. 3.6e-19;
Matches 79; Conservative 52; Mismatches 141; Indels 50; Gaps 7;

QY 7 PLTCGHRPVVDVAFSGITPYGYFLISACKDGMPLRGDGTGWTGFLGHKGVAVGAT 66
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 3 PILLGHERSTQKYN---REGDLLFTVAKDPIVNVYSVNGERLGYNGHTGAVWCVD 59

QY 67 LNKDATKAATAADFTAKVWDVAVSGDELMTLAHKHIYKTVDFQDSNMYLXTG-----GQD 121
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 60 ADWTKHVLTSADNSCLWDCGTGQLALLKTNLSAVRTGDFGNGNIIMFTOKMGYQ 119

QY 122 KILRYDYLKPEA---EP-KETSGHTSGIKKALWCSDDKQILSADDK----- 164
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 120 CFVSTFDLRDSQIDNNEPTKIPNDKITSVAVGPIGECITAGHESGELNQYSKSGE 179

QY 165 -TVRLWDHATMTYKSLNFMNSVSMEXIPEGEILVITYGRSIAFHSAYSLPIKSPFAP 223
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 180 VLVNVKHSRQINDIQLSRDNTM-----FVTSKDNKTAKLPDSTTLEHQKTFRT 229

QY 224 ATINSKXPEKEFLVAGGED-----FKLYDYNSGEELESYKGFHPIH 269
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 230 RPNVGAALSPNYDRLVGGQEAQMDVTTTTRICKFEARFFHLAFEEFGRVYKGFHPI 289

QY 270 CVRPSDGLYASGSDGTLRL 291
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 290 SVAFHPDGKSYSGGEGDYVRI 311

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RESULT 5
US-09-092-508-2
; Sequence 2, Application US/09092508
; Patent No. 6291643
; GENERAL INFORMATION:
; APPLICANT: Henzel, William J.
; TITLE OF INVENTION: APAF-1, AN ACTIVATOR OF C ASPASE-3
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
; STREET: 3100 No. 6291643west Center, 90 South Seventh St
; CITY: Minneapolis
; STATE: MN

```

```

; COUNTRY: USA
; ZIP: 55402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/092,508
; FILING DATE: 05-JUN-1998
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/048,807
; FILING DATE: 05-JUN-1997
; APPLICATION NUMBER: 60/055,258
; FILING DATE: 07-AUG-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Kettelberger, Ph.D., Denise M
; REGISTRATION NUMBER: 33,924
; REFERENCE/DOCKET NUMBER: 11669, 60USU1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 612-332-5300
; TELEFAX: 612-332-9081
; TELEX:
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1194 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FRAGMENT TYPE: internal
; US-09-092-508-2

Query Match 14.3%; Score 263.5; DB 3; Length 1194;
Best Local Similarity 25.9%; Pred. No. 8.3e-18;
Matches 74; Conservative 51; Mismatches 126; Indels 35; Gaps 7;

QY 13 HTRVVDVAFSGITPYGYFLISACKDGMPLRGDGTGWTGFLGHKGVAVGATLNKDAT 72
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 603 HTDVAVHACFS---EDGORIASCAGDKTLQVFAETGEKLEIKAHEDVLCCAFSTDDR 659

QY 73 KAATAAADAETAKVWDVAVSGDELMTL-AHKHIYKTVDFQDSNY--LXTGGQDKLLRIYDL 129
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 660 FIATCSVDKKVKIWSMTGELVHYVDEHSEQVNCCHFTNSSHLLLATGSDCFELKNDL 719

QY 130 NKPAEPKESGHTSGIKKALWCSDDKQILSAD-DKTVLMDHATMTYKSLNFMNSVSS 188
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 720 NQKECR-NTMFGHTNSVNHCRFSPDKLLASCADGTLKLDATSANERKSINVKQFFLN 778

QY 189 MEYIPEGEILVITYGRSIAFHSAYSLPIKSPFAPATINSASXKPEKEFLVAGGEDFKLY 248
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 779 LE-----DPOEDNEVIVKCSWSADGARIMVAKN---KIF 811

QY 249 KYDYNSGEELSYKGFHPIHCVRFSPDGELYASGSDGTLRLWT 294
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 812 LWNDSRSKVADCRGHLVWVHGVFMFSPDGSFSLTSDDTIRLWT 857

RESULT 6
US-09-435-115-2
; Sequence 2, Application US/09435115
; Patent No. 6346607
; GENERAL INFORMATION:
; APPLICANT: Henzel, William J.
; TITLE OF INVENTION: APAF-1, AN ACTIVATOR OF C ASPASE-3
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
; STREET: 3100 No. 6346607west Center, 90 South Seventh St
; CITY: Minneapolis
; STATE: MN
; COUNTRY: USA

```


RESULT 9

US-09-092-508-16
 ; Sequence 16, Application US/09092508
 ; Patent No. 6291643
 ; GENERAL INFORMATION:
 ; APPLICANT: Henzel, William J.
 ; TITLE OF INVENTION: APAF-1, AN ACTIVATOR OF C ASPASE-3
 ; NUMBER OF SEQUENCES: 16
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
 ; STREET: 3100 No. 6291643 West Center, 90 South Seventh St
 ; CITY: Minneapolis
 ; STATE: MN
 ; COUNTRY: USA
 ; ZIP: 55402
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette
 ; COMPUTER: IBM Compatible
 ; OPERATING SYSTEM: DOS
 ; SOFTWARE: FastSeq for Windows Version 2.0
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/092,508
 ; FILING DATE: 05-JUN-1998
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 60/048,807
 ; FILING DATE: 05-JUN-1997
 ; APPLICATION NUMBER: 60/055,258
 ; FILING DATE: 07-AUG-1997
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Kettelberger, Ph.D., Denise M
 ; REGISTRATION NUMBER: 33,924
 ; REFERENCE/DOCKET NUMBER: 11669, 6USU1
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 612-332-5300
 ; TELEFAX: 612-332-9081
 ; TELEX:
 ; INFORMATION FOR SEQ ID NO: 16:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1205 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; FRAGMENT TYPE: internal
 ; US-09-092-508-16

Query Match 14.3%; Score 263.5; DB 3; Length 1205;
 Best Local Similarity 25.9%; Pred. No. 8.5e-18;
 Matches 74; Conservative 51; Mismatches 126; Indels 35; Gaps 7;
 QY 13 HTRPVVDXAFSGITPYGYFLISACKDGPMLRGDGTGDMWIGTFLGHGAVWGATLNKDAT 72
 Db 614 HTDAYVHACFS---EDGQRIASCGADKTLQVFAETGEKLEIKAHEDVILCCAFSTDOR 670
 QY 73 KAATAAADFTAKVMDAVSGDELMTL-AHKHIVKTVDFTDQSNY--LXTGGQDKLLRIYDL 129
 Db 671 FIATCSVDKKYKINWMTGELVHYDPSHQVNCCHFTNSSHLLATGSSDCFLKWL 730
 QY 130 NKPEAPKEISGHTSGIKKALWCSDDKQILSAD-DKTVRLWDHATMTVEKSLNPNMVS 188
 Db 731 NQECR-NTMFGHTNSVNHCRFSPDDKLLASCADGTLKLDATSANERKSINVKQFFLN 789
 QY 189 MEYIPGEILVITYGRSIAFSAVSLPEIKSFEAPATINSAXHPEKEFLVAGDEPKLY 248
 Db 790 LE-----DPQEDMEVIVKCCSWADGARIWAAXN---KIF 822
 QY 249 KYDINSGEELSYKHFGFPIHCVRFSPDGELYASGSDGTLRLWQT 294
 Db 823 LWNTRSKVADCRGLSWHGVMEFSPDGSFLLTSSDDQTLRLWET 868

RESULT 10

US-09-435-115-16
 ; Sequence 16, Replication US/09435115
 ; Patent No. 6346607
 ; GENERAL INFORMATION:
 ; APPLICANT: Henzel, William J.
 ; TITLE OF INVENTION: APAF-1, AN ACTIVATOR OF C ASPASE-3
 ; NUMBER OF SEQUENCES: 16
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
 ; STREET: 3100 No. 6346607 West Center, 90 South Seventh St
 ; CITY: Minneapolis
 ; STATE: MN
 ; COUNTRY: USA
 ; ZIP: 55402
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette
 ; COMPUTER: IBM Compatible
 ; OPERATING SYSTEM: DOS
 ; SOFTWARE: FastSeq for Windows Version 2.0
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/435,115
 ; FILING DATE:
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 09/092,508
 ; FILING DATE:
 ; APPLICATION NUMBER: 60/055,258
 ; FILING DATE: 07-AUG-1997
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Kettelberger, Ph.D., Denise M
 ; REGISTRATION NUMBER: 33,924
 ; REFERENCE/DOCKET NUMBER: 11669, 6USU1
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 612-332-5300
 ; TELEFAX: 612-332-9081
 ; TELEX:
 ; INFORMATION FOR SEQ ID NO: 16:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1205 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; FRAGMENT TYPE: internal
 ; US-09-435-115-16

Query Match 14.3%; Score 263.5; DB 4; Length 1205;
 Best Local Similarity 25.9%; Pred. No. 8.5e-18;
 Matches 74; Conservative 51; Mismatches 126; Indels 35; Gaps 7;
 QY 13 HTRPVVDXAFSGITPYGYFLISACKDGPMLRGDGTGDMWIGTFLGHGAVWGATLNKDAT 72
 Db 614 HTDAYVHACFS---EDGQRIASCGADKTLQVFAETGEKLEIKAHEDVILCCAFSTDOR 670
 QY 73 KAATAAADFTAKVMDAVSGDELMTL-AHKHIVKTVDFTDQSNY--LXTGGQDKLLRIYDL 129
 Db 671 FIATCSVDKKYKINWMTGELVHYDPSHQVNCCHFTNSSHLLATGSSDCFLKWL 730
 QY 130 NKPEAPKEISGHTSGIKKALWCSDDKQILSAD-DKTVRLWDHATMTVEKSLNPNMVS 188
 Db 731 NQECR-NTMFGHTNSVNHCRFSPDDKLLASCADGTLKLDATSANERKSINVKQFFLN 789
 QY 189 MEYIPGEILVITYGRSIAFSAVSLPEIKSFEAPATINSAXHPEKEFLVAGDEPKLY 248
 Db 790 LE-----DPQEDMEVIVKCCSWADGARIWAAXN---KIF 822
 QY 249 KYDINSGEELSYKHFGFPIHCVRFSPDGELYASGSDGTLRLWQT 294
 Db 823 LWNTRSKVADCRGLSWHGVMEFSPDGSFLLTSSDDQTLRLWET 868

RESULT 11

US-08-188-582-18
 : Sequence 18, Application US/08188582
 : Patent No. 5534410
 : GENERAL INFORMATION:
 : APPLICANT: Tian, Robert
 : APPLICANT: Comai, Lucio
 : APPLICANT: Dynlacht, Brian D.
 : APPLICANT: Hoey, Timothy
 : APPLICANT: Ruppert, Siegfried
 : APPLICANT: Tanese, Naoko
 : APPLICANT: Wang, Edith
 : APPLICANT: Weinzierl, Robert O.J.
 : TITLE OF INVENTION: TATA-BINDING PROTEIN ASSOCIATED FACTORS,
 : TITLE OF INVENTION: NUCLEIC ACIDS ENCODING TAFs AND METHODS OF USE
 : NUMBER OF SEQUENCES: 36
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: FLEHR, HOBBACH, TEST, ALBRITTON & HERBERT
 : STREET: 4 Embarcadero Center, Suite 3400
 : CITY: San Francisco
 : STATE: California
 : COUNTRY: USA
 : ZIP: 94111-4187
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Floppy disk
 : COMPUTER: IBM PC compatible
 : OPERATING SYSTEM: PC-DOS/MS-DOS
 : SOFTWARE: Patent in Release #1.0, Version #1.25
 : CURRENT APPLICATION DATA:
 : APPLICATION NUMBER: US/08/188,582
 : FILING DATE: 28-JAN-1994
 : CLASSIFICATION: 435
 : ATTORNEY/AGENT INFORMATION:
 : NAME: Osman, Richard A.
 : REGISTRATION NUMBER: 36,627
 : REFERENCE/DOCKET NUMBER: A-57650-2/AJT/RAO
 : TELEPHONE: (415) 781-1989
 : TELEFAX: (415) 398-3249
 : TELEX: 910 277299
 : INFORMATION FOR SEQ ID NO: 18:
 : SEQUENCE CHARACTERISTICS:
 : LENGTH: 704 amino acids
 : TYPE: amino acid
 : TOPOLOGY: linear
 : MOLECULE TYPE: protein
 : US-08-188-582-18

Query Match 13.0%; Score 238.5; DB 1; Length 704;
 Best Local Similarity 25.7%; Pred. No. 1.3e-15;
 Matches 86; Conservative 47; Mismatches 145; Indels 57; Gaps 11;
 QY 54 TFLGHKGAVGATLNDKATAAADAFTAKVWDVSSDELMTLAKHKVTKVDTQDSN 113
 DB 369 TFLNAYQGLTAVDVTDDSLIAGGFADSTVRVW-SVTPKKLRVSKQASLSLIDKESD-- 425
 QY 114 YLXTGGQDKLRIYDLNKPAAEPKEISGTSIGIKKALWCSDDKQIL-SADDTVRLWDHA 172
 DB 426 -----DVLERIM-EKTASELKILYGHSGPVVGASFSPDRNYLLSSSEDTGVRNLSLQ 477
 QY 173 TMT-EVKSINFMVSSVMEYIPEGEILVI-TYGRSIAFHSAVSELEPKSFAP-ATINSA 229
 DB 478 TPTCLVGVKGHNYPVMDTQSPYGYFFVSGGHDVRVRLWATDHYQPLRIFAGHLADVNC 537
 QY 230 SXHPEKFLVAGGDEFLKYDYANGSEELSYKHGFGPIHCVRFSPDGLYASGSDGTL 289
 DB 538 RHPNSNVATGSDARTVRLWDLVNGVCRIFTGKHGPIHSLTFSPNGRFLATGATGVR 597
 QY 290 RLWQ-----TVYVKTYG-----LWKCVP-----EEDSGE 314
 DB 598 LLWDIGHGLMVGELKGTHTDVCSLRFSDRGELLASGMDNTVRLWDIAIKAFEDLETDTFT 657
 QY 315 LAKPKIGPETAEEELAEETASENSISYSTPEV 349

DB 658 TATCHINLPENSOELLGTGMK-----STPVV 685

RESULT 12

US-08-646-715-18
 : Sequence 18, Application US/08646715
 : Patent No. 5637686
 : GENERAL INFORMATION:
 : APPLICANT: Tian, Robert
 : APPLICANT: Comai, Lucio
 : APPLICANT: Dynlacht, Brian D.
 : APPLICANT: Hoey, Timothy
 : APPLICANT: Ruppert, Siegfried
 : APPLICANT: Tanese, Naoko
 : APPLICANT: Wang, Edith
 : APPLICANT: Weinzierl, Robert O.J.
 : TITLE OF INVENTION: TATA-BINDING PROTEIN ASSOCIATED FACTORS,
 : TITLE OF INVENTION: NUCLEIC ACIDS ENCODING TAFs AND METHODS OF USE
 : NUMBER OF SEQUENCES: 36
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: FLEHR, HOBBACH, TEST, ALBRITTON & HERBERT
 : STREET: 4 Embarcadero Center, Suite 3400
 : CITY: San Francisco
 : STATE: California
 : COUNTRY: USA
 : ZIP: 94111-4187
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Floppy disk
 : COMPUTER: IBM PC compatible
 : OPERATING SYSTEM: PC-DOS/MS-DOS
 : SOFTWARE: Patent in Release #1.0, Version #1.25
 : CURRENT APPLICATION DATA:
 : APPLICATION NUMBER: US/08/646,715
 : FILING DATE: 09-MAY-1996
 : CLASSIFICATION: 435
 : PRIOR APPLICATION DATA:
 : APPLICATION NUMBER: US 08/188,582
 : FILING DATE: 28-JAN-1994
 : ATTORNEY/AGENT INFORMATION:
 : NAME: Osman, Richard A.
 : REGISTRATION NUMBER: 36,627
 : REFERENCE/DOCKET NUMBER: A-57650-2/AJT/RAO
 : TELEPHONE: (415) 781-1989
 : TELEFAX: (415) 398-3249
 : TELEX: 910 277299
 : INFORMATION FOR SEQ ID NO: 18:
 : SEQUENCE CHARACTERISTICS:
 : LENGTH: 704 amino acids
 : TYPE: amino acid
 : TOPOLOGY: linear
 : MOLECULE TYPE: protein
 : US-08-646-715-18

Query Match 13.0%; Score 238.5; DB 1; Length 704;
 Best Local Similarity 25.7%; Pred. No. 1.3e-15;
 Matches 86; Conservative 47; Mismatches 145; Indels 57; Gaps 11;
 QY 54 TFLGHKGAVGATLNDKATAAADAFTAKVWDVSSDELMTLAKHKVTKVDTQDSN 113
 DB 369 TFLNAYQGLTAVDVTDDSLIAGGFADSTVRVW-SVTPKKLRVSKQASLSLIDKESD-- 425
 QY 114 YLXTGGQDKLRIYDLNKPAAEPKEISGTSIGIKKALWCSDDKQIL-SADDTVRLWDHA 172
 DB 426 -----DVLERIM-EKTASELKILYGHSGPVVGASFSPDRNYLLSSSEDTGVRNLSLQ 477
 QY 173 TMT-EVKSINFMVSSVMEYIPEGEILVI-TYGRSIAFHSAVSELEPKSFAP-ATINSA 229
 DB 478 TPTCLVGVKGHNYPVMDTQSPYGYFFVSGGHDVRVRLWATDHYQPLRIFAGHLADVNC 537
 QY 230 SXHPEKFLVAGGDEFLKYDYANGSEELSYKHGFGPIHCVRFSPDGLYASGSDGTL 289

Db 538 RPHNSNYVATGSDRTVRLWDLVNGNCVRIETGKHGPIHSLTSPNGRFLATGATDGRV 597
 QY 290 RLWQ----TVGKTYG-----LWKCXP-----EEDSGE 314
 Db 598 LLDIGHGLMVGELAGHTDYCSLRFSDCEILASGMDNTVRLWDAIKAFEDLETDFT 657
 QY 315 LAKPKGFETAEELAEIASENSDDIYSSSTPEV 349
 Db 658 TATGHINLPENSOELLGTYMTK-----STPVV 685

RESULT 13

US-09-291-170A-12
 ; Sequence 12, Application US/09291170A
 ; Patent No. 6410687

; GENERAL INFORMATION:
 ; APPLICANT: Vale, Ronald D.
 ; APPLICANT: Hartman, James J.
 ; TITLE OF INVENTION: The Regents of the University of California
 ; TITLE OF INVENTION: Assays for the Detection of Microtubule
 ; TITLE OF INVENTION: Depolymerization Inhibitors
 ; FILE REFERENCE: 18557B-0005100S
 ; CURRENT APPLICATION NUMBER: US/09/291,170A
 ; CURRENT FILING DATE: 1999-04-13
 ; PRIOR APPLICATION NUMBER: US 60/081,734
 ; PRIOR FILING DATE: 1998-04-14
 ; NUMBER OF SEQ ID NOS: 16
 ; SOFTWARE: Patentin Ver. 2.0
 ; SEQ ID NO 12
 ; LENGTH: 250
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE:

; OTHER INFORMATION: TFIID WD40 repeat region
 US-09-291-170A-12

Query Match 12.3%; Score 226.5; DB 4; Length 250;
 Best Local Similarity 24.7%; Pred. No. 4.4e-15;
 Matches 70; Conservative 41; Mismatches 109; Indels 63; Gaps 9;

QY 57 GHKGVWGTATLNKDATKAATAADFTAKVWDVSGDELMTL-----AHKHIVKTVDF 109
 Db 11 GHSGPYVGASFPDRNYLLSSSEDCIVRLW-----SLQTFCLVGVKGHNYPVWDTQFS 64
 QY 110 QDSNYLXTGGQDKLRIYDLNKPAPKEI-SGHTSGIKKALWSDDKQILSAD-DKTVR 167
 Db 65 PYGYTFVSGGHRVARLWATD--HYQLRIFAGHLADVNCNTRFHPNSNYVATGSDRTYR 122
 QY 168 LWDHATWTEVKSINFNMSVSMYIPBGEILVITYGRSIAFSAVSLPIKSFAPATIN 227
 Db 123 LWD-----VLNGNCVRIETGKH-----GPIH 143
 QY 228 SASXHPKEFLVAGGDFKLYKYDYNNGSELESYKHGPHCHVRFSPDGEYASGSDG 287
 Db 144 SLTFSPNGRFLATGATDGRVLLDIGHGLMVGELGHTDYCSLRFSDCEILASGMDN 203
 QY 288 TRLWTVVGVKTYGLWKCVPXPEEDSGELAKPKIGPETAEEEL 330
 Db 204 TVRLWDAL--KAF-----EDLETDDFTTATGHINLPENSQELL 239

RESULT 14

US-09-724-884-12
 ; Sequence 12, Application US/09724884
 ; Patent No. 6429304

; GENERAL INFORMATION:
 ; APPLICANT: Vale, Ronald D.
 ; APPLICANT: Hartman, James J.
 ; TITLE OF INVENTION: The Regents of the University of California
 ; TITLE OF INVENTION: Assays for the Detection of Microtubule
 ; TITLE OF INVENTION: Depolymerization Inhibitors
 ; FILE REFERENCE: 18557B-0005100S
 ; CURRENT APPLICATION NUMBER: US/09/724,884

; CURRENT FILING DATE: 2000-11-28
 ; PRIOR APPLICATION NUMBER: 09/291,170
 ; PRIOR FILING DATE: 1999-04-13
 ; NUMBER OF SEQ ID NOS: 16
 ; SOFTWARE: Patentin Ver. 2.0
 ; SEQ ID NO 12
 ; LENGTH: 250
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; OTHER INFORMATION: TFIID WD40 repeat region
 US-09-724-884-12

Query Match 12.3%; Score 226.5; DB 4; Length 250;
 Best Local Similarity 24.7%; Pred. No. 4.4e-15;
 Matches 70; Conservative 41; Mismatches 109; Indels 63; Gaps 9;

QY 57 GHKGVWGTATLNKDATKAATAADFTAKVWDVSGDELMTL-----AHKHIVKTVDF 109
 Db 11 GHSGPYVGASFPDRNYLLSSSEDCIVRLW-----SLQTFCLVGVKGHNYPVWDTQFS 64
 QY 110 QDSNYLXTGGQDKLRIYDLNKPAPKEI-SGHTSGIKKALWSDDKQILSAD-DKTVR 167
 Db 65 PYGYTFVSGGHRVARLWATD--HYQLRIFAGHLADVNCNTRFHPNSNYVATGSDRTYR 122
 QY 168 LWDHATWTEVKSINFNMSVSMYIPBGEILVITYGRSIAFSAVSLPIKSFAPATIN 227
 Db 123 LWD-----VLNGNCVRIETGKH-----GPIH 143
 QY 228 SASXHPKEFLVAGGDFKLYKYDYNNGSELESYKHGPHCHVRFSPDGEYASGSDG 287
 Db 144 SLTFSPNGRFLATGATDGRVLLDIGHGLMVGELGHTDYCSLRFSDCEILASGMDN 203
 QY 288 TRLWTVVGVKTYGLWKCVPXPEEDSGELAKPKIGPETAEEEL 330
 Db 204 TVRLWDAL--KAF-----EDLETDDFTTATGHINLPENSQELL 239

RESULT 15

US-08-190-802A-64
 ; Sequence 64, Application US/08190802A
 ; Patent No. 5519003

; GENERAL INFORMATION:
 ; APPLICANT: Mochly-Rosen, Daria
 ; APPLICANT: Rob, Dorit
 ; TITLE OF INVENTION: WD-40 - Derived Peptides and Uses
 ; TITLE OF INVENTION: Thereof
 ; NUMBER OF SEQUENCES: 265
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Dehlinger & Associates
 ; STREET: P.O. Box 60850
 ; CITY: Palo Alto
 ; STATE: CA
 ; COUNTRY: USA
 ; ZIP: 94306-0850
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/190,802A
 ; FILING DATE: 01-FEB-1994
 ; CLASSIFICATION: 530
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Fabian, Gary R.
 ; REGISTRATION NUMBER: 33,875
 ; REFERENCE/DOCKET NUMBER: 8600-0139
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (415) 324-0880
 ; TELEFAX: (415) 324-0960
 ; INFORMATION FOR SEQ ID NO: 64:
 ; SEQUENCE CHARACTERISTICS:


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; LENGTH: 798 amino acids
; TYPE: amino acid
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: TUP1 HOMOLOG, Fig. 47
; US-08-190-802A-64

Query Match      12.1%; Score 222; DB 1; Length 798;
Best Local Similarity 23.6%; Pred. No. 8.2e-14;
Matches 68; Conservative 45; Mismatches 115; Indels 60; Gaps 9;

QY 106 VDFQDSNYLXTGQCKLLRIYDL-----NKPRAEP--KEISGHTSGIKKA 149
Db 472 LDFSDDCKRIAAAGFQDSYIKIWSLDGSSLNPNPTALNNNDKDDPTCKTLVGHSGTVYST 531

QY 150 LWCSDKQILS-ADDKTVRLWDHATMTVEKSL-NFNMVSSMEYIPEGE-ILVITYGRSI 206
Db 532 SFSPDNKYLLSGSEDKTVRLWSMDHTALVSYKGNHPVWDVSFSLGHIYATASHDQTA 591

QY 207 AFHSAVSLEPIKSFEPAT-INSAXHPEKEFLVAGGEDFKLYKYDYNNGEELSYKGF 265
Db 592 RLWCDHIYPLRIFAGHLNDVCSFHPNGCIVFTGSSDKTCRMWDVSTGDSVRLFLGT 651

QY 266 GFHCVRFPSPDGEIYASGSEDGTLRLWQTVYVK----- 298
Db 652 APVISIACPDGRWLSTGSEDGLIINWDIGTKRLKMRGHGKNATYSLSYSKGNVLIS 711

QY 299 -----TYGLWKC-VXPEPDSGELAKPKIGFPETAEEELAEELIASNSD 340
Db 712 GGADHTVRVMDLKKATPEPSABPDEFFIGY-----LGDVTASINQD 752

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Search completed: October 3, 2003, 15:04:24
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: October 3, 2003, 14:54:42 ; Search time 242 Seconds
(without alignments)
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Title: US-09-856-836-2
Perfect score: 1840
Sequence: 1 MAMRQPLICSGHTRPVVDX.....EEIASNSDSIYSTPEVKA 351

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 587654 seqs, 158212981 residues
Total number of hits satisfying chosen parameters: 587654

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications_AA:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1347.5	73.2	282	9	US-09-925-301-1362
2	312.5	17.0	1356	14	US-10-077-111-10
3	300	16.3	742	14	US-10-077-111-11
4	292.5	15.9	350	12	US-10-032-585-7426
5	272.5	14.8	521	9	US-09-764-853-449
6	271	14.7	340	15	US-10-128-714-8037
7	263.5	14.3	1194	10	US-09-876-667-2
8	263.5	14.3	1194	12	US-10-141-618-10
9	263.5	14.3	1205	10	US-09-876-667-16
10	226	12.3	520	12	US-10-032-585-7220
11	224.5	12.2	797	12	US-10-032-585-7208
12	220	12.0	485	15	US-10-132-744B-6
13	218	11.8	278	15	US-10-128-714-3037
14	216	11.7	902	15	US-10-128-714-8346
15	215	11.7	902	15	US-10-128-714-3346

16	208	11.3	340	10	US-09-226-248B-5	Sequence 5, Appli
17	208	11.3	484	15	US-10-132-744A-2	Sequence 2, Appli
18	208	11.3	515	15	US-10-128-714-8213	Sequence 8213, Ap
19	207	11.2	435	15	US-10-128-714-3213	Sequence 3213, Ap
20	206	11.2	516	15	US-10-128-714-3137	Sequence 3137, Ap
21	206	11.2	516	15	US-10-128-714-8137	Sequence 8137, Ap
22	205.5	11.2	569	12	US-09-832-161-18	Sequence 18, Appli
23	205.5	11.2	569	14	US-10-042-417-2	Sequence 2, Appli
24	205.5	11.2	569	15	US-10-038-010-8	Sequence 8, Appli
25	205	11.1	799	12	US-10-032-585-7409	Sequence 7409, Ap
26	204.5	11.1	498	9	US-09-729-674-168	Sequence 168, App
27	203.5	11.1	514	15	US-10-274-525-1	Sequence 1, Appli
28	202.5	11.0	318	12	US-10-291-253A-13	Sequence 13, Appli
29	202	11.0	922	12	US-10-032-585-7219	Sequence 7219, Ap
30	200	10.9	1224	15	US-10-171-311-42	Sequence 42, Appli
31	199.5	10.8	340	10	US-09-226-248B-2	Sequence 2, Appli
32	199.5	10.8	340	12	US-10-320-778-1	Sequence 1, Appli
33	199	10.8	436	12	US-10-032-585-7185	Sequence 7185, Ap
34	198.5	10.8	678	10	US-09-801-368-314	Sequence 314, App
35	197.5	10.7	316	9	US-09-828-310-12	Sequence 12, Appli
36	196.5	10.7	540	10	US-09-213-888-7	Sequence 7, Appli
37	196.5	10.7	540	10	US-09-213-888-10	Sequence 10, Appli
38	196.5	10.7	540	10	US-09-328-877A-7	Sequence 7, Appli
39	196.5	10.7	540	10	US-09-328-877A-10	Sequence 10, Appli
40	196.5	10.7	540	12	US-10-245-618-14	Sequence 14, Appli
41	196.5	10.7	545	10	US-09-213-888-6	Sequence 6, Appli
42	196.5	10.7	545	10	US-09-328-877A-6	Sequence 6, Appli
43	196.5	10.7	553	10	US-09-213-888-5	Sequence 5, Appli
44	196.5	10.7	553	10	US-09-328-877A-5	Sequence 5, Appli
45	196.5	10.7	553	12	US-10-245-618-8	Sequence 8, Appli

ALIGNMENTS

RESULT 1
US-09-925-301-1362
; Sequence 1362, Application US/09925301
; Patent No. US20020052308A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA106
; CURRENT APPLICATION NUMBER: US/09/925,301
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05882
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1694
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1362
; LENGTH: 282
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (34)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (35)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-925-301-1362

Query Match 73.2%; Score 1347.5; DB 9; Length 282;
Best Local Similarity 94.8%; Pred. No. 1.2e-127;
Matches 257; Conservative 4; Mismatches 9; Indels 1; Gaps 1;

Qy	81	FTAKVDAVSDELMTAAKHLYKTVDTSQNVLTGQDKLLRIYDLNKPAPKEIS 140
Db	13	FTAKVDAVSDELMTAAKHXXXTVDFTQDSNLTGQDKLLRIYDLNKPAPKEIS 72
Qy	141	GHTSGIKKALWCSDDKQILSADDKTVRLWDHATWTVKSLNFNMSVSMSEYIPEGEILVI 200

Db 73 GHTSGIKALWCSDKQILSADDTVRLWDHATMTVEVKSLEFNMSVSSMEYIPEGEILVI 132
QY 201 TYGRSTAFHSAVSLPEIKSFAPATINSASXHPKEFLVAGGDFKLYKYDYNSGEELS 260
Db 133 TYGRSTAFHSAVSLPEIKSFAPATINSASXHPKEFLVAGGDFKLYKYDYNSGEELS 192
QY 261 YKGFHGPICVRFSPDGELYASGSDGTLRMTVVGKTYGLWKVXPEEDSGELAKPKI 320
Db 193 YKGFHGPICVRFSPDGELYASGSDGTLRMTVVGKTYGLWKVXPEEDSGELAKPKI 252
QY 321 GFTPEAEELAEIASENSDDSIYSTPEVKA 351
Db 253 GFTPEAEELAEIASENSDDSIYSTPEVKA 282

RESULT 2

US-10-077-111-10
; Sequence 10, Application US/10077111
; Publication No. US20020187492A1
; GENERAL INFORMATION:
; APPLICANT: Todderud, C. Gordon
; APPLICANT: Finger, Joshua N.
; APPLICANT: Rillema, Jill
; TITLE OF INVENTION: TBA
; FILE REFERENCE: 3053-4114US2
; CURRENT APPLICATION NUMBER: US/10/077,111
; PRIOR FILING DATE: 2002-02-15
; PRIOR APPLICATION NUMBER: 60/294,181
; PRIOR FILING DATE: 2001-05-29
; PRIOR APPLICATION NUMBER: 60/269,366
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 1356
; TYPE: PRT
; ORGANISM: Podospora anserina
; FEATURE:
; OTHER INFORMATION: beta transducin-like protein encoded by the
; OTHER INFORMATION: het-e-1 gene
US-10-077-111-10

Query Match 17.0%; Score 312.5; DB 14; Length 1356;
Best Local Similarity 27.9%; Pred. No. 4.7e-22;
Matches 94; Conservative 61; Mismatches 161; Indels 21; Gaps 9;

QY 9 TCSGHTRPVVDXAFSGITPYGYFLISACKDGKPMLRQGD--AGGSGDKLTHVMDVASGDELHTLEGHTDWRVAFSPDGA 514
Db 878 TLEGHGGVMSVAFS---PDRERVASGSDDKTIKINDAASGCTCTQTLLEGHGGVMSVAFS 934
QY 59 KDATKAATAAADFTAKVMDAVSGDELMTL-AHKHIVKTVDFEQDSNLYXTGGQDKLRIY 127
Db 935 PDGQRVASGSDHDTIKINDAASGCTCTQTLLEGHGGVMSVAFSPDQQRVASGSDGKTIKW 994
QY 128 DLNPEAPEKEISGHTSGIKALWCSDDKQILS-ADTKVRLWDHATMTVEVKSLEFNMS- 185
Db 995 DTASGCT-TCTLEGHGGVMSVAFSPDQQRVASGSDDKTIKINDAASGCTCTQTLLEGHGGW 1053
QY 186 VSSMEYIPEGE-LLVITYGRSTAFHSAVSLPEIKSFAPA-TINSASXHPKEFLVAGGE 243
Db 1054 VQSVFSPDQQRVASGSDHDTIKINDAASGCTCTQTLLEGHGGVMSVAFSPDQQRVASGSI 1113
QY 244 DFILKYDYNSGEELS YKGFHGPICVRFSPDGELYASGSDGTLRMTVVGKTYGLW 303
Db 1114 DGTIKINDAASGCTCTQTLLEGHGGVMSVAFSPDQQRVASGSDGKTIKWINDAASG----- 1167
QY 304 KCVPEEDSGELAKPKIGPPTAEELAEIASENS 340
Db 1168 TCTQTLLEGHGGVMSVAFSPD-----GQRVASGSD 1198

RESULT 3

Query Match 15.9%; Score 292.5; DB 12; Length 350;
Best Local Similarity 26.5%; Pred. No. 6.4e-21;

US-10-077-111-11
; Sequence 11, Application US/10077111
; Publication No. US20020187492A1
; GENERAL INFORMATION:
; APPLICANT: Todderud, C. Gordon
; APPLICANT: Finger, Joshua N.
; APPLICANT: Rillema, Jill
; TITLE OF INVENTION: TBA
; FILE REFERENCE: 3053-4114US2
; CURRENT APPLICATION NUMBER: US/10/077,111
; PRIOR FILING DATE: 2002-02-15
; PRIOR APPLICATION NUMBER: 60/294,181
; PRIOR FILING DATE: 2001-05-29
; PRIOR APPLICATION NUMBER: 60/269,366
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 742
; TYPE: PRT
; ORGANISM: Thermomonospora curvata
; FEATURE:
; OTHER INFORMATION: amino acid sequence encoded by the PKWA gene
US-10-077-111-11

Query Match 16.3%; Score 300; DB 14; Length 742;
Best Local Similarity 28.9%; Pred. No. 3.5e-21;
Matches 82; Conservative 50; Mismatches 140; Indels 12; Gaps 8;
QY 15 RPVVDXAFSGITPYGYFLISACKDGKPMLRQGD--TGMWIGTFTLGHGAVGATLAKDAI 72
Db 460 REAVAVAFS---PGGSL--AGGSGDKLTHVMDVASGDELHTLEGHTDWRVAFSPDGA 514
QY 73 KAATAAADFTAKVMDAVSGDELMTL-AHKHIVKTVDFEQDSNLYXTGGQDKLRIYDLNK 131
Db 515 LLASGSDDATVRLWDVAAAEERAVFEGHTHYVLDLAFSPDGSVMSVAFSROGTARLNNV-A 573
QY 132 PEAPKEISGHTSGIKALWCSDDKQILSAD-DKTVRLWDHATMTVEVKSLEFNMS-SVSSM 189
Db 574 TGTFAVLKGTHTDYVAVAFSPDGSVMSVAFSROGTARLNNV-A 633
QY 190 EYIPEGEILVITYGRSTAFHSAVSLPEIKSFAPAT-INSASXHPKEFLVAGGDFKLY 248
Db 634 AFSPDGSMVHGSDSTVRLWDVASGEALHTFEGHTDWRVAFSPDGAALLASGSDRTIR 693
QY 249 KYDNGSEELSYKGFHGPICVRFSPDGELYASGSDGTLRW 292
Db 694 LNDVAAQBEHTLEGHTDWRVAFSPDGAALLASGSDGTIRW 737

RESULT 4

US-10-032-585-7426
; Sequence 7426, Application US/10032585
; Publication No. US20030180953A1
; GENERAL INFORMATION:
; APPLICANT: Terry, Roemer D.
; APPLICANT: Bo, Jiang
; APPLICANT: Charles, Boone
; APPLICANT: Howard, Bussey
; TITLE OF INVENTION: Gene Disruption Methodologies for Drug Target Discovery
; FILE REFERENCE: 10182-005-999
; CURRENT APPLICATION NUMBER: US/10/032,585
; CURRENT FILING DATE: 2001-12-20
; NUMBER OF SEQ ID NOS: 8000
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7426
; LENGTH: 350
; TYPE: PRT
; ORGANISM: Candida albicans
US-10-032-585-7426

Query Match 15.9%; Score 292.5; DB 12; Length 350;
Best Local Similarity 26.5%; Pred. No. 6.4e-21;

```

RESULT 5
US-09-764-853-449
; Sequence 449, Application US/09764853
; Patent NO. US2002090672A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PJ206
; CURRENT APPLICATION NUMBER: US/09/764.853
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 939
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 449
; LENGTH: 521
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-764-853-449

```

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RESULT 6
US-10-128-714-8037
; Sequence 8037, Application US/10128714
; Publication No. US20030119013A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Bo
; APPLICANT: Hu, Wenqi
; APPLICANT: Tishkoff, Daniel
; APPLICANT: Zamudio, Carlos
; APPLICANT: Lemieux, Sebastien M
; APPLICANT: Eroshkin, Alexey M
; TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus
; TITLE OF INVENTION: Methods of Use
; FILE REFERENCE: 10182-018-999
; CURRENT APPLICATION NUMBER: US/10/128,714
; CURRENT FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US 60/285,697
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 60/287,066
; PRIOR FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: US 60/295,890
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/303,899
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: US 60/316,362
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 8603
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8037
; LENGTH: 340
; TYPE: PR1
; ORGANISM: Aspergillus fumigatus
US-10-128-714-8037

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Query Match      14.7%; Score 271; DB 15; Length 340;
Best Local Similarity 23.1%; Pred.No. 9.le-19;
Matches       74; Conservative    69; Mismatches 139; Indels   38; Gaps    6;

QY      7 PLTCSGTRPVWXAFTSGITPYGYFLISACKDGPMLRQGDGTGWIGTFGLHGKGAVMGAT 66
           : ||| : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db     3 PILLSGHERSLNIOKEN--RDGDLFSVANDKIVCAWWSANGERLGTYSGHOGAINTVD 59

QY     67 LNKDATKATAAADFTAKVWDVAVSDELMTLAHKHIVKTVDTQDSNYLXTGGQDKL--- 123
           :: : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db    60 VSPNTVILLATGSADNTRLWNKYTGECVKVMDFTAVAKRVAFNPDGSRLLAVTERKMGL 119

QY    124 --LRITYDNLKPEAPEKEISGHTSGIKKALWGSDDK-----ILSADDKTIVRLW 169
           : : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db   120 GFIAVLIDINYGDQGGGLENAQDEFSLRITTESKATVAGWSYLGYIILAGHDCGSVOY 179

QY    170 DHAT---MTEVKSUNENMVSMSNEVIPGE-ILVITYGRSIAHPHSANVLEPKKSEAPAT 225
           : : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db   180 DCKTGEQLENVQAHEFDHQINDIQSFQRTVFIAASKDKSAKLISRNNAILKITVADTP 239

QY    226 INSASXHXPEKFEFLVAGED-----FKLYKDYNNGEELSYKGHFHICV 271
           : : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db   240 LNSATIIPKKDYVILVGQAAMDVTITSAROCKFEARYHKVFEDEIGRVRGHFGLNTV 299

QY    272 RESPDGELYAGSGEDGTURL 291
           : : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db   300 DVHPNGTAAYAGGEDGVIRV 319

RESULT 7
US-09-876-667-2
; Sequence 2, Application US/09876667
; Patent No. US20020107370A1
; GENERAL INFORMATION:
; APPLICANT: Henzel, William J.
; TITLE OF INVENTION: APAP-1, AN ACTIVATOR OF C ASPASE-3
; NUMBER OF SEQUENCES: 16

```

```

/ FILE REFERENCE: P-LJ 5254
/ CURRENT APPLICATION NUMBER: US/10/141,618
/ CURRENT FILING DATE: 2002-05-07
/ PRIOR APPLICATION NUMBER: US 60/289,233
/ PRIOR FILING DATE: 2001-05-07
/ PRIOR APPLICATION NUMBER: US 60/356,934
/ PRIOR FILING DATE: 2002-02-12
/ PRIOR APPLICATION NUMBER: US 09/388,221
/ PRIOR FILING DATE: 1999-09-01
/ NUMBER OF SEQ ID NOS: 15
/ SOFTWARE: FASTSEQ for Windows Version 4.0
/ SEQ ID NO 10
/ LENGTH: 1194
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ US-10-141-618-10

Query Match      14.3%; Score 263.5; DB 12; Length 1194;
Best Local Similarity 25.9%; Pred. No. 3.4e-17;
Matches 74; Conservative 51; Mismatches 136; Indels 35; Gaps 7

QY      13 HRPVWDFAFSGTTPYGYFLLSACKDCKPMLQGGDGTGWTGLTGLGHKAGWCAFLNKDAT 72
      || || || || || || || || || || || || || || || || || || || || ||
Db      603 HFDAVYHACFS---EDGORIASOGAKTLOVFKAETGEKLEIKAEHDEVILCCAFSPDDR 659

QY      73 KAATAAADFTAKWBDVAVSGDELMTL-AHKHIVKTVYDFTQDSNY--LXTGGQDKLLRIYDL 129
      || || || || || || || || || || || || || || || || || || || || ||
Db      660 FATCSVDVKVKLWNSMTGELVHYHDEHSEYVNCCHFNSSHLLLATGSSDCLKLWDL 719

QY      130 NKPEAPEKTEISGTSIKKALWCSDDKQILSD-DKTVRLWDHATMTVEKSLNFMNSVSS 188
      || || || || || || || || || || || || || || || || || || || || ||
Db      720 NQKECR-NTMFGHTNSVNHCRFSDDKLLASCSDAGTLKLWDATSANBRKSIYKQFFELN 778

QY      189 MEVPEGEILVITVGRSAFASVNSLEPIKSTEARPATINSASXHPKEFLYAGGEDFKLY 248
      || || || || || || || || || || || || || || || || || || || || ||
Db      779 LE-----DPQEDMEVIVKCCNSADGARMVAAKN---KIF 811

QY      249 KYDYNSGEELSYKGFHPICHVRFSPDGLXASGEDGTLRLWOT 294
      || || || || || || || || || || || || || || || || || || || || ||
Db      812 LNTDSRKVADCRGHLNVHGVMFSDGSSFLTSSDDQVIRLWET 857

RESULT 9
US-09-876-667-16
/ Sequence 16, Application US/09876667
/ Patent No. US20020107370A1
/ GENERAL INFORMATION:
/ APPLICANT: Henzel, William J.
/ TITLE OF INVENTION: APAF-1, AN ACTIVATOR OF C ASPASE-3
/ NUMBER OF SEQUENCES: 16
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
/ STREET: 3100 NO. US20020107370A West Center, 90 South Seventh St
/ CITY: Minneapolis
/ STATE: MN
/ COUNTRY: USA
/ ZIP: 55402
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette
/ COMPUTER: IBM Compatible
/ OPERATING SYSTEM: DOS
/ SOFTWARE: FASTSEQ for Windows Version 2.0
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/876,667
/ FILING DATE: 07-Jun-2001
/ CLASSIFICATION: <Unknown>
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 09/435,115
/ FILING DATE: <Unknown>
/ APPLICATION NUMBER: 60/055,258
/ FILING DATE: 07-AUG-1997
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Kettelberger, Ph.D. Denise M

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QY	26	TPYGYFLISACKDGPMLROGDTGDMIGTFLGHGAVNGATL-----NKDATKPAATAAA	79
Db	124	TPRAIFKV-----KPIFRSN-----AAIAGH-----GSTILCAPAPNDSRMCSCGAG	166
QY	80	DFTAKVDAVSGDELMTLA-HKHIVKTVDTODSNYLXTGGQDKLRIYDLNKPRAEPKE	138
Db	157	DSSTARWCNCTPTDHTLUGSHSNWLCVYSPDGKLIATGSMOTRLMDATGTPGVOKP	226
QY	139	ISGHTSGIKALW-----CSDOKQILS-ADDKTVRLWDHATMEVYSINFMMSVSSME	190
Db	227	LLGHSKWSSLSWDPLHFVHASDNPLVSGSKDGVKVD-----TTAKNLCHDXIWISE	282
QY	191	YIPEGEILVITGRGIAHSAVSLEPIKSEAPAT---INSASXH-----	232
Db	283	-----PFLVLNGSVQTLFIVELMTQITKAWD:SANGKCIOTLKSHAHWNHLSLTDYVL	337
QY	233	-----PEK-----EFLVAGGDFKLKYDYNSGE	256
Db	338	RKGGFDBTSNRITQ:SPSELBARALQOEKVAKLINGSISERLVATASDDFMVFW-----E	392
QY	257	ELESYK-----GHRGPTHCVRSPDGELVYASGSDGRLRLQWTVG	297
Db	393	PLKSKPICMTGCHOXLXNHYHNFSPDGRFVWSSFDNSIKLWDGIRG	439
RESULT 11			
US-10-032-585-7208			
; Sequence 7208, Application US/10032585			
; Publication No. US20030180953A1			
; GENERAL INFORMATION:			
; APPLICANT: Terry, Roemer D.			
; APPLICANT: Bo, Jiang			
; APPLICANT: Charles, Boone			
; APPLICANT: Howard, Bussey			
; TITLE OF INVENTION: Gene Disruption Methodologies for Drug Target Discovery			
; FILE REFERENCE: 10182-005-999			
; CURRENT APPLICATION NUMBER: US/10/032,585			
; CURRENT FILING DATE: 2001-12-20			
; NUMBER OF SEQ ID NOS: 8000			
; SOFTWARE: PatentIn version 3.1			
; SEQ ID NO 7208			
; LENGTH: 797			
; TYPE: PRT			
; ORGANISM: Candida albicans			
US-10-032-585-7208			
Query Watch 12.2%; Score 224.5; DB 12; Length 797;			
Best Local Similarity 24.8%; Pred. No. 1.6e-13;			
Matches 52; Conservative 46; Mismatches 95; Indels 17; Gaps 5;			
QY	106	VDFQTQDSNLYXTGGQDKLRIY-----DLNKPAAEPKEISGHTSGIKKALWC	152
Db	466	IEFNDDSTLVAAGFQDSYIKLWSLDGKPLSKLRDRHKPQENRKLIGHSGPVYGVGSFS	525
QY	153	SDDAQILS-ADDKTVRLWDHATMEVKS-LNENKSVSSMEYIPEGEILV-ITVGRSIAFH	209
Db	526	PDNXYLLUSCEKTVRLWSLDTTYALVSYKGTQPPWQVKFSPLGHTVFTASHDQTARLM	585
QY	210	SAVSELEPKSEAPAT-INSASXHPKEFELVAGGEDFKLYRYDYNSEGEELSYKGFPI	268
Db	586	ATDHIYPLRIFAGINDVDCVEFHPNSNYVFTGSSDKTCRMWDVHTGNCVRVFLGHTNSV	645
QY	269	HCVRFSPDGELVYASGSDGTLRLMQTVGK	298
Db	646	NCLAVSPDGRWLASGEDGIIICVWDIGSGR	675
RESULT 12			
US-10-132-744A-6			
; Sequence 6, Application US/10132744A			
; Publication No. US20030027261A1			
; GENERAL INFORMATION:			

```

; PRIOR APPLICATION NUMBER: US 60/295,890
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/303,899
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: US 60/316,362
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 8603
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3037
; LENGTH: 278
; TYPE: PRF
; ORGANISM: Aspergillus fumigatus
US-10-128-714-8346

Query Match          11.8%; Score 218; DB 15; Length 278;
Best Local Similarity 22.3%; Pred. No. 1.5e-13;
Matches 63; Conservative 58; Mismatches 93; Indels 68; Gaps 8;

QY      51 WIGTFGLGHGAVGWATLNKDKATRAARAADFTAKVWDVAYSDELMTLAHKHIVKTVDFDTQ 110
      | ||| ||| :: :: || ||| ::| ::| ::| ::| ::| ::| ::| ::|
Db      8 WRRIRFGHOGAIWTVDVSPVLLATGSADNTVRLWNVTGTCQVKVWDEFTAVKRVAFNP 67

QY      111 DSNVLTXTGQDKL-----LRIVDLNKPPEAKPEFISGHTSGIKKALWCSDDKQLLSADDKT 165
      | ::| ::| ::| ::| ::| ::| ::| ::| ::| ::| ::| ::| ::| ::|
Db      68 DGRKLLAVTEKRWGFLGTIAVIDTNGDSO-----GGLEN-----QADEFS 109

QY      166 VRLWDHATMTKVSILNFNNSSYMMXI-----PEGEI-----LVITVG 203
      | ::| ::| ::| ::| ::| ::| ::| ::| ::| ::| ::| ::| ::|
Db      110 LRI-----TCTESKA-----TVAGWSYLKVIILAGHEDGSVSQYDKGFSQDRTVFIITASK 160

QY      204 RSTAFHSANVSLPIKSPFAPATINSAXHPEKFLVAGGED-----FKLYK 249
      | ::| ::| ::| ::| ::| ::| ::| ::| ::| ::| ::| ::| ::|
Db      161 KSAKLLSSRNAILATKYVYADVPLNSATITPKDYVILGGQAAMDVTTTSAROGKFEARF 220

QY      250 YDYNCSGEESLYKHFGFIHCVRSPDGLXYAGSGEDGTGLRL 291
      | ::| ::| ::| ::| ::| ::| ::| ::| ::| ::| ::| ::| ::|
Db      221 YHKVFEDEICRVGRHFGPLNTVDVHPNGTAYAGSGEDGVYRV 262

RESULT 14
US-10-128-714-8346
; Sequence 8346, Application US/10128714
; Publication No. US20030119013A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Bo
; APPLICANT: Hu, Wenqi
; APPLICANT: Tishkoff, Daniel
; APPLICANT: Zamudio, Carlos
; APPLICANT: Eroshkin, Alexey M
; APPLICANT: Lemieux, Sebastien M
; TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
; TITLE OF INVENTION: Methods of Use
; FILE REFERENCE: 10182-018-999
; CURRENT APPLICATION NUMBER: US/10128,714
; CURRENT FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US 60/285,697
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 60/287,066
; PRIOR FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: US 60/295,890
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/303,899
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: US 60/316,362
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 8603
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8346
; LENGTH: 902
; TYPE: PRF
; ORGANISM: Aspergillus fumigatus
US-10-128-714-8346

```

Query Match 11.7%; Score 216; DB 15; Length 902;
Best Local Similarity 19.9%; Pred. No. 1.4e-12;
Matches 93; Conservative 60; Mismatches 134; Indels 180; Gaps 16;
QY 3 MROTPLCSTGHTRPVDAFSGITPKGYFLISACKDGRKM----- 42
DB 43 VRNTSYTLFESHRTNIDL--DLSPGNLLSVDSNGRAILTNFVRIVIHHSFKGRVT 100
QY 43 -LQOGTGNICITFLGHKAVW-----GATLN----- 68
DB 101 ALAFSTGTHFAVGVGRRLQIWHPTPTDNNGETEFAPFVLRDLAAHFDVIOIEWS 160
QY 69 KDATKAATAADEFATAKW--DAVSGDELMTLA-HKHIVKTVDFTQD----- 111
DB 161 RDSRFLIASKDLIARIWSLDPBEGPEPTLAGHRCGVKAAFFADQESYIYISSDGAIF 220
QY 112 -----SNLYXTGGQDKLLRY 127
DB 221 RWEYVTKDPDPTMEDIAEARNRIVKDYFMQNDKAVNCATFHAPSLLVVGFSNGLFGLY 280
QY 128 DLNKPAP-----KEISGHT 143
DB 281 DL--PDFNPIHOLGVSQNDIDFVNKSGEWLAFSGSKHGQLLVWQSESYILKQOQHL 338
QY 144 SGIKKALWCSDKQIL-SADKIVRLWD-----HATMTEVKSILFNKSNVSSMEXIPEGE 196
DB 339 DSMNALAYSPDQKIVTAADGKVYWDVKSFCIVTTEHSS-----GYTACKFAKKS 393
QY 197 IL-VITYGSIAPFAGVLEPIKSFAPA--TINSASXHPKEFLVAGGED-FKLYKYDY 252
DB 394 VLFTASLDGVSRAWDLIRYRFTFTAPSTFTSLAVDPGSEVICAGSPDSDIHWVSV 453
QY 253 NSGEELSYKHGFGPIHCVRPSDPGEYVAGSGEDGTLRLWQTVVGKT 299
DB 454 QTGLLDQLSGHEGVPSSIAFADGNHLAGSGWDRTRVW-SIFGRT 499

RESULT 15

US-10-128-714-3346
; Sequence 3346, Application US/10128714
; Publication No. US20030119013A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Bo
; APPLICANT: Hu, Wengli
; APPLICANT: Tishkoff, Daniel
; APPLICANT: Zamudio, Carlos
; APPLICANT: Eroskin, Alexey M
; APPLICANT: Lemieux, Sebastien M
; TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
; FILE OF INVENTION: Methods of Use
; FILE REFERENCE: 10182-018-999
; CURRENT APPLICATION NUMBER: US/10/128,714
; PRIOR FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US 60/285,697
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 60/287,066
; PRIOR FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: US 60/295,890
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/303,899
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: US 60/316,362
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 8603
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3346
; LENGTH: 902
; TYPE: PRT
; ORGANISM: Aspergillus fumigatus
US-10-128-714-3346

Query Match 11.7%; Score 215; DB 15; Length 902;
Best Local Similarity 20.0%; Pred. No. 1.8e-12;

Matches 89; Conservative 59; Mismatches 119; Indels 178; Gaps 16;
QY 25 ITPYGYFLISACKDGRKM-----LQOGTGNICITFLGHKAVW 63
DB 63 LSPGNLLSVDSNGRAILTNFVRIVIHHSFKGRVTALKFSTGTHFAVGVGRRLQIW 122
QY 64 -----GATLN-----KDATKAATAADEFATAKW--DA 88
DB 123 HTPSTGTDNNGETEFAPFVLRDLAAHFDVIOIEWSRDSRFLITASKDLIARIWSLDP 182
QY 89 VSGDELMTLA-HKHIVKTVDFTQD----- 111
DB 183 EBFEPETLAGHRCGVKAAFFADQESYIYISSDGAIFRWEYVTKDPDPTMEDIAEARNR 242
QY 112 -----SNLYXTGGQDKLLRYDLNKPAP-----KEIS- 140
DB 243 IVKDYFMQNDKAVNCATFHAPSLLVVGFSNGLFGLYDL--PDFNPIHOLSVSQSNIDF 300
QY 141 -----GHTSGIKKALWCSDKQIL-SADK 164
DB 301 VTNKSGEWLAFSGSKHGQLLVWQSESYILKQOQHLDSMNALAYSFDQKIVTAADG 360
QY 165 TVRLWD-----HATMTEVKSILFNKSNVSSMEXIPEGEIL-VITYGSIAPFAGVLEPI 217
DB 361 KVAVMDVKSFCIVTTEHSS-----GYTACKFAKKSGLVFTASLDGVSRAWDLIRYRNF 415
QY 218 KSFAPA--TINSASXHPKEFLVAGGED-FKLYKYDYNSEGELESYKHGFGPIHCVRFS 274
DB 416 RTFAPSTFTSLAVDPGSEVICAGSPDSDIHWVSVQTGLLDQLSGHEGVPSSIAF 475
QY 275 PDGELYVAGSGEDGTLRLWQTVVGKT 299
DB 476 ADGNHLAGSGWDRTRVW-SIFGRT 499

Search completed: October 3, 2003, 15:12:31
Job time : 243 secs